CONSTRUCTION NEWS

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RAILWAYS.

*(*Denotes that this work is advertised in Engineering News.)*

MASSACHUSETTS.—An attempt is being made to induce the Grand Trunk System to include Boston among its terminals. The suggestion is made that inasmuch as the road seriously objects to running into Boston over jointly owned or leased lines, it may acquire the Central Massachusetts R. R. from Palmer to Boston, the idea being to modify or alter the State laws so as to permit the taking of this road by eminent domain, some authorities appearing to believe that slight changes, if any, would be necessary in the laws.

CONNECTICUT.—New York, New Haven & Hartford R. R. Co.—It is reported that this company is planning extensive improvements in and around New Canaan in the elimination of grade crossings and the establishment of a new terminal and freight yard.

✚PENNSYLVANIA.—Philadelphia & Reading Ry. Co.—Bids were opened May 10 for abolishing grade crossings on the Richmond Branch Elevated: Contract 24, masonry walls and abutments between Trenton Ave. and Richmond St., and Contract 25, bridges, ready for ballast over Aramingo Ave., Belgrade and Thompson Sts. The contract has been awarded to the JAMES McGRAW CO., Arcade Bldg., Philadelphia.

Wilkes-Barre & Hazleton Ry.—It is proposed to extend this road to other sections of the Wyoming Valley and to some of the larger towns in Carbon County. C. B. Houck, Hazleton, Pa., is Gen. Mgr.

WEST VIRGINIA.—Gilmer & Parkersburg R. R. Co.—This company proposes to construct a line, about 60 miles long from Burnsville, by the way of Glenville, to Parkersburg, W. Va. Glenville will be headquarters. The incorporators include S. A. Hays, of Glenville, and C. M. Bennett, R. F. Kidd, Robert L. Ruddell and D. W. O'Brien, of Burnsville.

ALABAMA.—Press advices state that Newman Erb and his associates, A. F. Brady and C. E. James, have sold their controlling interest in the Tennesee, Alabama & Georgia R. R. to the Tidewater Development Co., a corporation which controls the Tuscalooca Belt Line and various other properties in Alabama. The Tidewater Co. announces that it will extend the Tuscaloosa line to Birmingham, in connection with the Tennessee, Alabama & Georgia R. R., open a line from the Alabama coal and iron district to Mobile, where the company owns terminal facilities. It is asserted that persons interested in the Louisville & Nashville are also interested in the Tidewater Co.

TENNESSEE. — W. J. Oliver, Knoxville, Tenn., and others are considering the feasibility of constructing a line from Bristol or Johnson City to Morristown and across to Sevierville to connect with the proposed Knoxville & Greeneville R. R.

ILLINOIS. — Northern Illinois Industrial Co.—Articles of incorporation have been issued to the Northern Illinois Industrial Co., which proposes to construct a railroad from North Chicago to Waukegan. The principal office will be at Waukegan. The incorporators are C. E. Saylor, S. Schwartz, J. P. Arthur, Theodore H. Durst, M. H. Hussey, all of Waukegan and John Sherwin, James T. Hayes, Dr. L. B. Jolley, M. C. Decker, all of North Chicago.

MINNESOTA.—Chicago, Milwaukee & St. Paul Ry.—The lowering of the main line tracks will cost about $1,800,000, according to plans prepared by Andrew Rinker, City Engr., which are about to be submitted to the Council Committee on Roads and Bridges. The plans contemplate the lowering of the main tracks between the depot and 48th St. and Minnehaha Ave.; also between the junction in South Minneapolis and the Mississippi River. C. F. Lowell, Chicago, Ill., is Ch. Engr.

ARKANSAS.—Rock Island R. R.—Surveys are being made for a branch from Wales to Camden, Ark., a spur having formerly been built from Malvern to Wales. This new line will be about 50 miles long, and ultimately will be extended to El Dorado or some other point on their Crossett line. In the construction of this line it is believed the Rock Island will acquire parts of the logging roads of the Wisconsin and Arkansas Lumber Co. and the Eagle Mills Lumber Co.

CALIFORNIA.—Clear Lake R. R. Co.—This company, recently incorporated, proposes to build a standard-gage railroad from Hopland to Lakeport, with branches to Upper Lake and Kelseyville, an estimated total length of 44 miles. The directors are as follows: L. H. Boggs and M. M. Gopcević, both of Kelseyville; C. M. Hammond, Upper Lake; Duville Howard, H. V. Keeling, Joseph Levy, M. S. Sayre, Z. T. Spencer, A. H. Spurr, all of Lakeport; S. E. Brooks, Hopland; C. C. McMahan, Bartlett Springs.

ONTARIO.—Hudson Bay Ry.—The Railways and Canals Department will issue calls for tenders for the first 185 miles of line, starting from the Pas Misson. Contractors will be given two months in which to submit their proposals.

ELECTRIC RAILWAYS.

(✚Denotes a contract awarded.)

HOUSATONIC, MASS. — The Berkshire St. Ry. Co. is planning to remove its tracks from Main St. and lay them on Front St., and also secure track location for the State Line trolley branch. C. Q. Richmond is Vice-Pres., and A. H. Towne is Engr.

CORNING, N. Y.—The Corning & Painted Post St. Ry. Co. plans to spend about $400,000 in the near future on improvements. Main St. will be double tracked and the line extended. B. L. Bradley, Corning, is Supt.

NEW YORK, N. Y.—Judge Lacombe, in the United States Circuit Court, signed an order authorizing Frederic W. Whitridge, as receiver of the Union Ry. Co., to enter into a contract with the city of New York for the privilege of operating a line across Madison Ave. bridge, so as to connect the company's lines in Manhattan and Bronx, between East 136th and East 138th Sts. The order further authorizes the receiver to contract with the city for a double-track extension along Broadway, between 230th and 225th St., to connect the Union Ry. Co. with the Kingsbridge Ry. Co. and for permission to cross intervening streets and avenues.

NEW YORK, N. Y.—The Manhattan Bridge Service Co., has made application to the Board of Estimate for a franchise to build a railway across th Manhattan Bridge. Arthur Carter Hume is a director.

YONKERS, N. Y.—The Yonkers R. R. Co., has been granted permission to build a railway on Nepperton Ave. from Lake Ave. to the northerly city line. Leslie Sutherland is Receiver.

✚LEISENRING, PA.—A contract for the construction of an extension of the line of the West Penn Rys. Co. from Vance Mills to Phillips, a distance of two miles, has been awarded to REAGAN & LYNCH, Uniontown, Pa. This is a part of the line from Leisenring to Uniontown. Upon the completion of this section the line will be finished within two miles of its terminus. Noted Feb. 2.

ERIE, PA.—The Buffalo & Lake Erie Traction Co., of which C. A. Adermen, Buffalo, is Ch. Engr., has applied for five separate franchises. Two of the ordinances relate to franchise grants to the Erie & Suburban Co., a subsidiary line of this company, and are for a double track line on East Twelfth St., and a single track on East Sixth St. The other three ordinances provide for a sinble-track line on Wayne St., a double track southwardly on State St., and the third provides for an extension of the East 26th St. line from Ash St. to Pennsylvania Ave.

LANSDOWNE, PA. — The Terminal St. Ry. Co. has received permission to build its railway through Lansdowne. B. J. O'Connell, Land Title Bldg., Philadeluhia, is interested.

PITTSBURG, PA.—The Pittsburg Ry. Co. has been granted franchises to extend its tracks on Diamond St. from Smithfield to Wood St., and to connect its tracks near the end of Butler St. with the tracks on Aspinwall Bridge. F. Uhlenhart, Jr., Pittsburg, is Ch. Engr.

GRAFTON, W. VA.—The Grafton, Fairmont & Clarksburg Ry. Co. has been chartered and will build a line which will enter Grafton and will run to Bridgeport, in Harrison County, by way of Boothsville, and then to Clarksburg, over the line already constructed as far as Bridgeport, about 30 miles. The right of way will be secured as soon as possible. Charles Sutherland, Morgantown, is Pres.

ALBANY, GA.—A perpetual franchise has been granted to C. W. Rawson and associates to build a 3-mile electric railway. Noted on Feb. 23.

ATLANTA, GA.—The Georgia Ry. & Light Co. has applied for a franchise to extend its tracks 2½ miles from Buckhead to the boundary of Fulton County. G. W. Brine, Atlanta, is Gen. Mgr.

MOBILE, ALA.—Plans for the construction of a trestle from Dauphin Island to Cedar Point are about completed by the Dauphin Island Ry. & Harbor Co. to cost $420,000. There will be three draw-spans. The company plans to build an electric railway to connect Gadsden, Birmingham, Tuskaloosa and Dauphin Island. Geo. T. Bishop, of Cleveland, Ohio, is Pres.

LAKE VIEW, MISS.—The Lake View Traction Co. will extend its line from Lake View to Walls. J. H. Sullivan is Pres.; Walter Goodman is Vice-Pres.; J. R. Pleasants is Secy.; P. S. Smithwick is Treas. The directors are R. F. Tate, R. T. Faut, J. S. Robinson, B. G. Henning, W. A. Percy, R. H. Nebhut, D. D. Saunders. The offices are at North Memphis Savings Bank Bldg., Memphis, Tenn.

PADUCAH, KY.—The Paducah Traction Co. has been granted a franchise to extend its lines in Paducah and to build a proposed extension to Mechanicsburg. L. A. Sohier, Paducah is Supt.

GARY, IND.—The Calumet United Rys. Co., Indianapolis, has been granted a franchise to build its tracks through Gary. This is a part of the proposed line connecting Michigan City, Gary, Chesterton, Aetna, East Chicago, and Hammond. James A. Slattery, Philadelphia, is interested.

CHICAGO, ILL.—A double-track surface extension of the Garfield Park line, of the Metropolitan West Side Elevated Ry. Co., will be built over the 100-ft. right of way of the Aurora, Elgin & Chicago Ry. from 52d Ave. to Desplaines Ave. near the western city limits of Chicago. This connection will require seven miles of new track. Several of the old stations will be remodeled and new ones built. James Walker, Chicago, is Ch. Engr.

ROTHSCHILD, ILL.—The Chicago & Wisconsin Valley R. R. Co. contemplate an extension to Rothschild. Allen T. Russell, Chicago, Ill., is Gen. Mgr.

WAUKEGAN, ILL.—The Chicago, Waukegan & Woodstock Traction Co. has been incorporated to build an electric railway between Waukegan and Woodstock through Waukegan, McHenry and Lake counties. The incorporators are Chas. A. Spenny, Columbus, Ohio; Irving B. Stevens, W. P. MacCracken, Peter B. Olsen and H. S. Hedberg, all of Chicago, Ill. The offices are at Chicago.

EAU CLAIRE, WIS.—The Chippewa Valley Construction Co., subsidiary of the Chippewa Valley Ry., Light & Power Co., has increased its capital stock from $10,000 to $100,000 for extensive improvements.

✚ANOKA, MINN.—The contract for grading and placing rails has been awarded to the ATLAS ENGINEERING & CONSTRUCTION CO., Minneapolis, by the Minneapolis Northern Suburban Ry. Co. for a line 15 miles in length. Gasoline motive power will be used. W. J. Whitcomb, 17 Central Ave., Minneapolis, is Pres. Noted May 18.

GRAND FORKS, N. DAK.—The Grand Forks St. Ry. Co. will let contracts for building about a mile of new track in Grand Forks in the near future. R. B. Griffith, Pres., Grand Forks. Noted Oct. 6.

LITTLE ROCK, ARK.—The Little Rock, Pine Bluff & Eastern Traction Co. has been chartered to build an electric railway to connect Little Rock and Pine Bluff by way of Altheimer, Stuttgart, Helena and Clarendon. The officers are C. C. Kavanaugh, Pres.; J. M. Mahaffey, Secy., and E. W. Jackson, Treas.

CENTRALIA, WASH.—An electric line is about to be constructed between Centralia and Rochester, 15 miles. Articles of incorporation have been filed by the Centralia Electric Light & Traction Co. The incorporators and directors are Walter Copping, G. W. Muck, N. W. Mills, Bruce Richards and Dan Salzer. The greater part of the right-of-way has been secured.

SEATTLE, WASH.—Application has been made by George W. Write for a franchise to build a 4-mile electric railway from the southern limits of Seattle to Lake Burien.

BAKERSFIELD, CAL.—The Bakersfield & Kern Co. has been incorporated. The directors are C. R. Eager, S. B. Cushing, H. A. Blodgett, F. T. Wharff and C. N. Beal.

MONTEREY, CAL.—The Monterey & Pacific Grove Ry. Co. is contemplating making its line a standard gage and building extensions. H. R. O'Bryan, 224 Alvarado St., Monterey, is Pres. and Pur. Agent.

LOS ANGELES, CAL.—The Los Angeles & San Fernando Electric R. R. Co. has been incorporated to build a railway between Los Angeles and San Fernando, about 25 miles. A section of 4½ miles will be built out from San Fernando costing $100,000, and will be surveyed at once. L. C. Brand is Pres., W. C. Kerchoff is Vice-Pres., J. F. Santon is Treas., Harry Chandler is Secy.

✚The Pacific Electric Ry. Co. (Southern Pacific Co., owner) has awarded a contract to ROBERT SHERER & CO., 650 Pacific Electric Bldg., for grading and building a double-track railway, commencing on the Glendale line near Arden St. and Brand Boulevard, thence northerly to Fourth and Providencia Aves., Burbank, and to Cypress Ave. The distance is between four and five miles. Noted May 18.

SAN DIEGO, CAL.—G. W. Purcell of the San Diego & Escondido R. R. Co., has secured a franchise for operating a passenger traffic line from the foot of F St. to 16th St., terminating at the City Park. The company contemplates erecting a freight depot.

✚GUELPH, ONT.—The contract for the construction of the Municipal Radial Railway extension in St. Patrick's Ward has been awarded to P. S. SECORD & SONS, Bantford.

LIGHT AND POWER PLANTS.

*(*Denotes that this work is advertised in Engineering News.)*

SOUTH BOSTON (Boston post-office), MASS.—The Boston Elevated Ry. Co. has ordered the following apparatus from the General Electric Co., Schenectady, for the equipment of their new power station at South Boston: Two 15,000-KW., 6,600-volt, 25-cycle turbo-alternators, six 2,500 KVA. compensators, and 2 motor-operated rheostats. The turbines will generate power at 6,600 volts and this will be stepped up to 13,200 by the compensators. The station will supply power to seven rotary converter railway substations, four of which will contain 2,000 KW. units, and the other three 1,500 KW. units.

✚NEW HAVEN, CONN.—The New York, New Haven & Hartford R. R. Co. has awarded the contract to the WESTINGHOUSE ELECTRIC & MANUFACTURING CO. for steam turbines, electric generators and 15 electric locomotives that represent an expenditure of about $1,000,000. The Westinghouse Machine Co. will furnish the turbine equipment, consisting of four 4,000-HP. machines, while the generators and locomotives will be supplied by the Westinghouse Electric & Manufacturing Co.

✚ALBANY, N. Y.—The Board of Contract and Supply has awarded a new contract to the MUNICIPAL GAS CO. to furnish electric light for the streets of Albany for a period of five years, beginning June 21, at 22½ cts. per lamp per night for service from overhead wires, and 21½ cts. from wires in conduits, and 5½ cts. for a few incandescent lamps. The estimated cost of replacing the present lamps with the modern magnetic lamp is $56,000. The ornamental poles from the railway station through Broadway and State St., and on both sides of the capitol to Swan St., is estimated to cost about $6,000.

ROCKVILLE CENTRE, L. I., N. Y.—Bids will be received until June 2 by F. G. Hooley, Village Atty., for an addition to the municipal electric light plant. A bond issue of $11,000 has been voted by the citizens.

NEW YORK, N. Y.—Bids will be received at the office of James Knox Taylor, Superv. Arch., Treasury Dept., Washington, D. C., until 3 p. m., June 12, for the installation of electrically driven pumps in the U. S. court-house and post-office, New York.

✚NEW YORK, N. Y.—The contract for which bids were opened May 9 for contract No. 6 has been awarded to the VULCAN RAIL & CONSTRUCTION CO., 175 North Ninth St., Brooklyn. Noted May 4.

✚UTICA, N. Y.—The contract for electric subways for which bids were opened on May 24 has been awarded to the SAFETY INSULATED WIRE & CABLE CO., at $29,906. The other bidders are as follows: Hickey Construction Co., $44,917.89; J. R. Baxter, Jr., $33,846.10; N. D. Peters & Co., $37,396.80; Warner Quinland Asphalt Co., $37,319; T. M. McLeod & Co., $40,131; J. B. O'Rourke & Co., $45,486; H. W. Roberts & Co., $36,645.20. Noted May 11.

LOCK HAVEN, PA.—A meeting consisting of the light and sanitary committee of the City Council, the executive committee of the Board of Trade, John Nolen, the Landscape Arch., and E. D. Tillson, of the Safety Insulated Wire & Cable Co., New York, was held recently to arrange for conduit system. Bids for laying a conduit from the junction of Main St. and Bellefonte Ave. to Jay St., and for furnishing 40 standards for this section will be received until June 1.

CLAYSVILLE, PA.—The Claysville Electric Light, Heat & Power Co. has been granted a franchise. Two sites are under consideration for the plant. It is proposed to run an ice plant in connection with the lighting station. A. C. Whitaker, Wheeling, W. Va., and M. G. Hertzog, Claysville, are reported interested.

CATONSVILLE, MD.—The Baltimore County Water & Electric Co. has completed arrangements for installing new arc and incandescent lights on all streets. The present lights in use at Catonsville will be transferred to Highlandtown. The new lights will cost about $5,000.

RICHMOND, VA.—The Appalachian Power Co., Richmond, has been chartered. The promoters are New York and Chicago capitalists and the operations of the company will be confined to the counties of Southwest Virginia, with rights to enter any city. Pocahontas, Graham, Bluefield, Princeton and Bramwell are among those which will be supplied. Robert E. Scott, Richmond, is a director; H. M. Byllesby, Chicago, is Pres.; M. A. Wells, New York, is Vice-Pres.; Elmer Dover, Chicago, is Secy., and R. J. Graff, Chicago, is Treas.

✚The contract for wiring in the U. S. post-office, Richmond, Va., has been awarded to the ATLANTIC ELECTRIC CO., of Norfolk, Va., at $7,923. Noted May 11.

CHARLESTON, S. C.—Estimates are being made for the construction of a 3-story steel and concrete power house, 115 × 115 ft., to be built by the United Gas & Improvement Co., Philadelphia, Pa.

EDGEFIELD, S. C.—The citizens have voted a bond issue of $15,000 for the construction of an electric light plant.

MACON, GA.—The Macon Gas Light & Water Co. is contemplating improvements to include a high pressure gas main and additions to gas plant. The estimated cost is $45,000.

DECATUR, ALA.—The J. B. McCrary Co., Atlanta, Ga., are preparing plans for a municipal electric light plant. Cost, about $40,000.

TUSCALOOSA, ALA.—A franchise has been granted to the Tuscaloosa Natural Gas Co. to install a gas system. The officers are as follows: Luther Maxwell, Pres.; W. H. Raiford, Vice-Pres.; G. B. Worthen, Secy.-Treas.

DYERSBURG, TENN.—The City Water and Light Department will receive bids until noon, June 13, for engines, boilers, gene-

rators and switchboard equipment for addition to electric light plant. Specifications furnished upon application at the department or M. W. Ewell, Mayor.

✚TOLEDO, OHIO.—The contract for installing an electric light and power system in the Morrison R. Waite High School and the Jessup W. Scott High School has been awarded to the BEATTIE ELECTRIC CO., 324 East Fourth St., Cincinnati, at $31,780. G. L. McKesson is Director of Schools. Noted April 27.

BYRON, ILL.—Surveys have been made for a dam along the Rock River. It is stated that Frank O. Lowden, former Congressman, is interested.

FORT SHERIDAN, ILL.—Bids will be received by Lt.-Col. Thomas Cruse, Ch. Q. M., 556 Federal Bldg., Chicago, Ill., in triplicate, until 11 a. m., June 16, for furnishing and installing a central heating and power plant at Fort Sheridan, Ill.

✚JOLIET, ILL.—A contract has been closed between Congressman Ira C. Copley, Joliet, and HEINRICH KOPPERS, Coke Oven Corporation of Germany. Under the terms of the contract the Koppers concern will construct a $1,000,000 high-pressure gas plant in Lockport Township, north of Joliet. It will have a capacity of 3,000,000 ft. of gas a day and will supply 45 cities and towns in northern Illinois with light, among them Joliet, Aurora, Elgin and St. Charles.

BARABOO, WIS.—The Baraboo Gas & Electric Co. has filed articles of incorporation and has been granted a charter. The incorporators are Frank R. Grover, Theodore H. Durst and William Clancy.

MISHICOT, WIS.—Ira Beyer and Peter Rowlier are promoting a plan to construct a dam across Michicot River to furnish power for an electric light and power plant.

SUPERIOR, WIS.—The Superior Water, Light & Power Co. contemplates making $100,000 improvements including extension of the water mains, and gas pipe lines. All transformers in the city will be replaced by new ones; two new reservoirs will be constructed.

MILWAUKEE, WIS.—Bids will be received at the office of the Board of Trustees, Public Museum, until 4 p. m., June 15, for furnishing material and installing plumbing and gasfitting, steam heaing, electric wiring, telephone and clock system, vacuum cleaning, and light and power plant at the Public Museum building on Eighth St., between Grand Ave. and Wells St.

FORT DODGE, IOWA.—The Northern Iowa Construction Co. is planning to build a cement dam on the Des Moines River. The proposed dam will be about twelve feet high. The water supply will be improved, and electricity for power will be generated. A power house will be erected, and it is estimated that $200,000 will be spent.

STATE CENTER, IOWA.—A contract for rebuilding the electric light plant recently destroyed by fire will be let in the near future.

WEBSTER CITY, IOWA.—A bond issue of $50,000 has been authoribed for the construction of a municipal electric light and power plant.

NORTH MANKATO, MINN.—See item under Water Supply—Irrigation.

WAYZUTA, MINN.—See item under Water Supply—Irrigation.

ROCHESTER, MINN.—Plans are being prepared by E. D. Jackson, St. Paul, for a street lighting system.

FLANDREAU, S. DAK.—The installation of an electric light plant at an estimated cost of $20,000 is being agitated. Mr. Shaver, St. Paul, Minn. is interested.

GREAT FALLS, MONT.—The Great Falls Townsite & Power Co. has filed a mortgage of $15,000,000 for the purpose of making improvements. The Rainbow Falls power station will be improved to the extent of $4,000,000, and an aditional $4,000,000 will be used in constructing a power plant at Great Falls. The remaining $7,000,000 will be used largely in the electrification of 120 miles of the Chicago, Milwaukee & Puget Sound Ry., to be built from Lewistown to Great Falls.

ST. LOUIS, MO.—The Dixon-Smith Engineering Co., 878 Wright Bldg., St. Louis, is preparing plans for a concrete dam and hydroelectric plant for the Arcadia County Club, St. Louis. Bids will be received until July 15. Cost, $50,000. Henry C. Muskoff, St. Louis, is Landscape Engr. and Arch.

COLUMBIA, MO.—See item under Water Supply—Irrigation.

MOUNT VERNON, MO.—Bids will be received by the Board of Managers of the Missouri State Sanitorium at Mount Vernon, until 1 p. m., June 3, for the furnishing and installation of a 175-HP. boiler, additional apparatus and pipe work in powerhouse; also for pipe covering in powerhouse and tunnels. Plans and specifications can be seen at the office of Dr. E. W. Schauffler, Pres. Bd. of Mgrs., Room 317, Argyle Bldg., Kansas City, Mo., and at the office of H. H. Hohenschild, 309 Navarre Bldg., St. Louis, Mo.

KINGMAN, ARIZ.—The Kingman Gas Co. has secured options on a site for the purpose of building a gas plant.

CASTLEROCK, WASH.—Carl A. McClain has been appointed Gen. Supt. of a private company contemplating the erection of a power plant.

FORT FLAGLER, WASH.—Bids will be received at the office of Capt. E. C. Long, Q. M., U. S. A., 482 Arcade Annex, Seattle, Wash., in triplicate, for the construction of an electric lighting system at Fort Flagler, Wash., until 11 a. m., June 15.

✚ANACORTES, WASH.—A contract for installing a heating plant at the Wilson Hotel has been awarded to the FOX HEATING Co., Everett, Wash.

GRANTS PASS, ORE.—A site for a gas plant has been purchased by A. W. Butler. A franchise has been granted. The gas holder will have a capacity of 50,000 cu. ft. About 200,000 cu. ft. of gas will be generated daily. Cost, $60,000.

EUGENE, ORE.—The City Water Board has made application to the City Council to call an election to vote a bond issue of $57,500 to extend the municipal electric light plant, the installation of a complete electrical distribution system for commercial lights and power, and the rehabilitation of the hydro-electric plant at Walterville.

✚BAKERSFIELD, CAL.—The contract for a surface condenser for the San Joaquin Light & Power Co., Bakersfield, has been awarded to BRAUN, WILLIAMS & RUSSELL, Inc., 503 Market St., San Francisco.

MADERA, CAL.—The franchise for laying gas mains through the city streets has been granted to Frederick C. Roberts on May 15. Noted May 11.

✚PASADENA, CAL.—A contract has been awarded to G. M. GEST, San Francisco, for constructing the electric underground conduit system on South Orange Grove Ave., at $45,000.

LOS ANGELES, CAL.—The Pacific Light & Power Corporation will apply for 40-year franchise to build pole lines on specified roads in certain townships.

LAS PUMAS (Oroville post-office), CAL.—The Great Western Power Co., which has its water rights, reservoirs and generating plants in Butte and Plumas counties, contemplates spending $1,000,000 for increasing the capacity of its generating station at Las Plumas on the Feather River and to start work on a second development of power above Las Plumas. Edwin Hawley is Pres. and H. H. Sinclair is Vice-Pres. and Gen. Mgr. Among those interested are Leo Van der Naillen, J. W. Goodwin, Luther Holton and James K. Moffitt, all of San Francisco.

SACRAMENTO, CAL.—A conduit system for lighting purposes will be installed at the State Capitol. Ornamental electroliers will be used. George G. Radcliffe is Supt.

TURLOCK, CAL.—The construction of a municipal gas plant is contemplated. The estimated cost is $50,000.

✚TUSTIN, CAL.—A contract has been made with the SOUTHERN CALIFORNIA EDISON CO., Los Angeles, to install and operate 110 electric lights on certain streets of Tustin.

OAKLAND, CAL.—Bids will be received by the Board of Education until 8 p. m., June 6, for heating and ventilating systems to be installed at the schools at Melrose, Elmhurst and Dewey.

PASADENA, CAL.—The Municipal Electric Light Plant will probably be equipped with a reserve engine and electrical generating unit. The estimated cost is $35,000.

MONTREAL, QUE.—The Shawinigan Water & Power Co., is planning to build another power-house to develop 75,000 additional HP. Julian C. Smith, 607 Power Bldg., Montreal, is Gen. Supt. and Ch. Engr.

PENETANGUISHENE, ONT.—The Municipality will expend $27,000 for a hydro-electric power scheme, of this amount $16,500 will be used to purchase the existing plant and $10,500 for extensions and improvements.

PRINCE ALBERT, SASK.—Bids will be received until June 26 by C. O. Davidson, Secy.-Treas., until June 26 for hydraulic power and electrical power equipment at La Colle Falls Power Station. C. H. & P. H. Mitchell are the Engrs., Traders' Bank Bldg., Toronto, Ont.

BRIDGES.

(✚*Denotes a contract awarded.*)

BOSTON, MASS.—The Norfolk County Commissioners, John F. Merrill, Chn., are considering a proposition to reconstruct the draw and make the necessary repairs on the Fore River bridge. The work is estimated at $60,000.

WATERTOWN, N. Y.—A bridge is proposed over Black River, at Jackson St. The Concrete-Steel Engineering Co., Park Row Bldg., New York, has submitted an estimate of $133,149 for a reinforced-concrete structure, 46 ft. wide. Francis M. Hugo is Mayor and Earl W. Sayles, City Engr.

PLAINFIELD, N. J.—The Freeholders of Union and Somerset Counties have decided to replace the wooden bridge at Washington Ave., with a concrete and iron structure, to cost approximately $9,000. The bridge will be 60 ft. long and 50 ft. wide.

SMETHPORT, PA.—Bids will be received by the Commissioners of McKean County until 10 a. m., June 10, for the construction of the stone and concrete substructure and the steel superstructure for a bridge over a branch of the Kinzua Creek, in Hamilton Township, according to plans and specifications on file in the office of the Commissioners, at Smethport.

*KUTZTOWN, PA.—Bids will be received until 10 a. m., June 20, by A. L. Rhoads, County Controller, Reading, for the construction of a reinforced concrete arch bridge at Kutztown. For details, see advertisement in this issue.

✚FREDERICK, MD.—The contract for constructing an iron bridge over Bush Creek, near Ijamsville, has been awarded to the YORK BRIDGE CO., York, Pa.

✚FAIRMONT, W. VA.—The contract for constructing a reinforced-concrete bridge at Fourth St. has been awarded to R. H. MOFFITT at $12,096.

JACKSONVILLE, FLA.—Bids will be received by the Commissioners of Duval County until 10 a. m., June 7, for constructing a reinforced-concrete bridge, 24 ft. long, over Miller Creek at Atlantic Boulevard. C. W. Ellis is Chn. Bd. of Comrs. and Gail I. Barnard, City Clk.

TAMPA, FLA.—Fred Warren, City Engr., is making surveys for a bridge to be erected over the Hillsborough River at Lafayette St. Bonds for $190,000 will be voted.

✚LOUISVILLE, KY.—The contract for constructing a reinforced-concrete arch bridge at Underhill St. has been awarded to NATIONAL CONCRETE CO., Indianapolis, Ind., at $11,510. The other bidders were: L. R. Figg & Co., $14,147; Henry Bickel Co., $13,939; L. W. Hancock Co., $12,936; H. H. Snyder, $11,815.

CINCINNATI, OHIO.—See item under Streets and Roads.

CINCINNATI, OHIO.—Bids will be received by the Board of County Commissioners until noon, June 23, for constructing bridges, culverts and approaches on the County Club road in Silverton, Sycamore and Columbia Townships. Fred Dreihs is Clk. of Bd.

EATON, OHIO.—Bids will be received by the Commissioners of Preble County until noon, June 2, for constructing a 70-ft. reinforced-concrete arch bridge across Talawanda Creek on the College Corner and Fair Haven road. J. F. Randall is County Audr.

HAMILTON, OHIO.—L. A. Dillon, County Surveyor, has been directed to prepare plans for two 175-ft. bridges, one in Oxford Township, and one near Collinsville. The cost of the structures is estimated at $12,000.

IRONTON, OHIO.—Bids will be received by the Commissioners of Lawrence County until noon, June 12, for constructing the superstructure of a steel highway bridge over Symmes Creek on the Waterloo and Mt. Vernon Turnpike. The bridge is to be 100 ft. long, center to center of end pins, clear width 16 ft., with six panels, height of truss equal to panel length, placed on stone abutments at a right angle. A. C. Robinson is County Audr.

BLUFFTON, OHIO.—Bids will be received by the Board of Commissioners of Allen County at Lima, Ohio, until June 20, for the construction of a concrete arch bridge on West Elm St.

ELDORA, OHIO.—Bids will be received until June 22 for constructing a 7-span steel bridge, 30 ft. wide, with concrete floor and steel or concrete foundation, over Iowa River at Iowa Falls. The cost is estimated at $15,000. J. H. Quackenbush, Webster City, Iowa, is Design. City Engr. and E. L. Marriage, County Audr.

MISHAWAKA, IND.—William S. Moore, City Engr. of South Bend, Ind., has prepared plans for a concrete bridge at Logan St. The cost of the structure is estimated at $65,000.

ROCKFORD, ILL.—Plans and specifications are being prepared for the construction of a 125-ft. bridge, estimated at $12,000, over Keith Creek at Sixth St. The channel of the stream will be changed to allow the construction of the bridge. S. B. Hand is City Engr.

MILWAUKEE, WIS.—Bids will be received by the Department of Public Works, Harry E. Briggs, Comr., until June 10, for the construction of a single-leaf bascule bridge across Milwaukee River at Oneida St., to be completed March 1, 1912. Estimated cost, $120,000. The plans were prepared by L. J. Klug, Supt. of Bridges.

MANITOWOC, WIS.—The County Board of Supervisors has been petitioned to replace the present bridge over Manitowoc River at Collins, Manitowoc County, with a steel structure to cost $12,000.

LEAVENWORTH, KAN.—Bids will be received by J. A. Hall, County Clk., until noon, June 5, for repairing Bridge No. 8 over Nine Mile Creek, Delaware Township; a stone arch culvert near Nieman's Farm in Easton Township and constructing a new approach to Bridge No. 205 in Easton Township; and until noon, June 14, for repairing a concrete culvert on the Wyandotte and Leavenworth county line, and to the Harms Bridge in Kickapoo Township.

✚WICHITA, KAN.—The contract for a steel and concrete bridge, 400 ft. long and 18 ft. wide, has been awarded to the WICHITA CONSTRUCTION CO. at $19,450.

✚PEMBINA, N. DAK.—The contract for constructing all bridges in Pembina County has been awarded to the FARGO BRIDGE & IRON WORKS, Fargo, N. Dak. Noted on May 11.

✚SPRINGFIELD, MO.—The contract for constructing a concrete culvert, 222 ft. long and 12 ft. wide has been awarded by the County Court to A. H. ROUNTREE at $5.25 per cu. yd. The culvert will be located on the Mt. Vernon road about two miles southwest of Springfield, and will be completed as soon as possible.

HOUSTON, TEX.—Bids will be received by Dan C. Smith, Jr., City Controller and Secy., City Hall, Houston, until noon, July 3, for the construction of a reinforced-concrete viaduct over the Houston ship channel. The structure will be about 1,650 ft. long and 60 ft. wide. Specifications and plans, bidding blanks, etc., can be obtained upon application at the office of F. L. Dormant, City Engr. H. B. Rice is Mayor.

✚MOAB, UTAH.—We are officially advised that the contract for constructing a bridge over Grand River, was awarded on May 20 to the MIDLAND BRIDGE CO., Gibraltar Bldg., Kansas City, Mo., at $43,000. The other bidders were: Monarch Engineering Co., $48,000; Patterson-Burghardt Construction Co., $47,000; Chas. G. Sheehy, $46,577; Empire Bridge Co., $47,800; Central States Bridge Co., $47,060; A. M. Blodgett Construction Co., $46,925. Noted on May 11.

RITZVILLE, WASH.—Bids will be received by the Board of County Commissioners until June 16 for constructing a 2-span steel bridge across the Palouse River at Palouse Falls, one span to be a 140-ft. pin connected truss and the other span to be a 42-ft. riveted truss.

*TACOMA, WASH.—Bids are asked by Owen Woods, Comr. of Public Works, until noon, June 26, for the erection of a steel bridge over the Puyallup River and a steel bridge over the City Waterway. Estimated cost, $600,000. For details, see advertisement in this issue.

EUREKA, CAL.—Bids [illegible] received by the Board of Supervisors [illegible] [illegible]oldt County until 2 p. m., June 13, [illegible] construction of a pile trestle and fill [illegible] road from the new Eel River br[illegible] Ferndale in Road District No. 1. [illegible] Cousins is Clk.

RED BLUFF, CAL.—B[illegible] received by the Clerk of the Bo[illegible] Supervisors until 10 a. m., June 6, [illegible] construction of the following bridges on [illegible] highways: One 80-ft. span and 60 [illegible] with piers across Pine Creek in [illegible] district No. 5; two 80-ft. spans with pi[illegible] abutments across Little Stony Creek [illegible] district No. 4; one trestle bridge, [illegible] across a slough near Little Stony [illegible] Road district No. 4. Plans and [illegible]ons are on file with W. F. Luning.

RIVERS, MAN.—Bids w[illegible] received by James R. Shanks, Chn. Brid[illegible] Wheat[illegible]land, Man., until June [illegible] supply, erection, etc., of masonry a[illegible] a 90-ft. steel span, 16-ft. roadway [illegible] stringers for a bridge over the Litt[illegible] [illegible]tchewan River, 1½ miles from Riv[illegible]. Copies of drawings, etc., at the office o[illegible] Chief Engineer, Dept. Pub. Wks., Win[illegible].

TORONTO, ONT.—Bids w[illegible] received until June 5 for the constru[illegible] a reinforced-concrete arch bridge o[illegible] branch of the Highland Creek. Bar[illegible] Young Engrs.

BUILDINGS.

(**Denotes that this work is* [illegible] *tised in Engineering News*[illegible])

BANGOR, ME.—A bill author[illegible] the construction of a Federal buildi[illegible] Bangor, Me., in place of the one de[illegible] by the recent fire in that city, has be[illegible] passed by the Senate. The cost is limite[illegible] $100,000.

RICHFORD, VT.—Bids were r[illegible] as follows on May 27 by James [illegible] Taylor, Superv. Arch., Treasury Dept. [illegible]hington, D. C., for the construction of [illegible] S. post-office at Richford, Vt.: Swee[illegible] [illegible]ngs Co., Richford, Vt., $82,500; King [illegible] Co., Charlottesville, Va., $55,000; M[illegible] Fireproofing Co., New York, N [illegible] $68,317; West Chester Engineering Co. [illegible] New York, N. Y., $55,997; William H. F[illegible] & Co., New York, N. Y., $57,500; W[illegible]dbury & Leighton, Boston, Mass., $62,000 [illegible] Merritt Wallace, Beverly, Mass., $56,0[illegible].

✚PROVIDENCE, R. I.—The [illegible] for the construction of a 4-story br[illegible] addition, 34 × 70 ft., to the Westminster H[illegible], owned by the estate of Charles H. Sm[illegible] has been awarded to the CRUISE & SMILEY CONSTRUCTION CO., Pawtucket, R. I. The plans were drawn by Clarke, Howe & Homer, Weybosset St., Providence, R. I.

✚NEW BRITAIN, CONN.—A building will be constructed here by the New Britain Turner Society. The building will be located at 142-146 Arch St. The contract is held by DOWNES & KUNZE, New Britain, Conn.

NEW HAVEN, CONN.—According to press reports a building at Yale, to cost $500,000 and to be used as a department of comparative zoology and astronomy, to be placed on Prospect St., as contemplated by the Scientific School. The funds will be provided by the University.

✚NEW HAVEN, CONN.—Contracts for the erection of a 2-story and basement brick warehouse, 60 × 100 ft., with an L, 40 × 100 ft., in Hamden, for the Frank S. Platt Co., have been awarded to J. H. HOGAN for the mason work, and HARRY McCAULLEY for the carpenter work. Arch. Philip Sellers drew the plans. Noted on March 30.

✚SOUTH NORWALK, CONN.—JOHN McSHAIN, 631 North 17th St., Philadelphia, Pa., has been awarded the general contract for the additions to the college at "Ferndale," Keysers Island, for the Catholic Fathers of the Holy Ghost. R. W. Boyle, 1626 Chestnut St., Philadelphia, Pa., prepared the plans.

STAMFORD, CONN.—G. F. Newton, 6 Beacon St., Boston, Mass., has been commissioned to draw plans for a church for the First Congregational Society. The edifice will be of brick and stone, and will cost $50,000. Rev. L. F. Berry is Pastor.

✚WATERBURY, CONN.—Bids for the construction of the new addition to the Crosby High School, on East Main St., were recently received by the Board of Education and the contract awarded to J. F. BUTTNER, Waterbury, Conn., at $72,950. Other bids were as follows: John W. Gaffney & Son, $73,999; Valcourt & La Croix, $74,500; the George S. Chatfield Co., $75,480; George R. Blodgett, $77,000; the Tracy Bros. Co., $77,875; George A. Upham, $78,400. The addition will be three stories and basement, 30 × 96 ft., of light pressed brick with limestone trim. Theodore B. Peck, 65 Leach St., is the Arch. Noted on May 11.

✚The TRACY BROS. CO., Waterbury, have been awarded the contract for the new store and office building to be erected at 14-20 North Main St. for William Reether. The building will be ten stories high, instead of twelve, as previously planned, 52 × 123 ft., of brick, with steel frame, fireproof construction, with reinforced concrete floors, four passenger and two freight elevators, steam heat, and a fireproof vault of terra cotta blocks on each floor. The first three floors will be occupied by a department store, and the remaining floors will contain 96 offices. Noted on March 2.

Estimates are being received by [illegible] Jerome Bailey, 63 Bank St., for the er[illegible] [illegible]n of a 5-story block, at 68 South Elm S[illegible] for Angelo Place. The building will b[illegible] of brick, 52 × 55 ft., arranged for a store [illegible] apartments.

WILLIMANTIC, CONN.—A Y. [illegible] C. A. building, to cost about $40,000, [illegible] planned for this city. A building com[illegible]ttee has the matter in charge. Address [illegible] General Secretary.

NEW YORK, N. Y.—Bids will [illegible] received until June 7 by the Departmen[illegible] of Public Charities, East 26th St., for pr[illegible]ding all labor and materials necessary or required

for the interior finishing, fixtures and all other work as set forth in the drawings and specifications for the entire completion of a dormitory for female inmates at the New York City farm colony, situated on the property of the Department of Public Charities, on the north side of the Manor Road, Township of Castleton, Richmond, N. Y. Michael J. Drummond is Comr.

The Greenwich Investing Co. has secured a loan of $[illegible] for the construction of a loft building at 503 to 507 Hudson St.

The James Livingston Construction Co. has purchased from the Avoca Realty Co. the plot 101 [illegible] x irregular at the northwest corner of Fort Washington Ave. and 170th St. The property will be improved with an [illegible]-story apartment house to cost $300,000.

Press reports state that construction work will soon start on a hotel at Glen Island immediately after the close of the amusement season. The building will be of modified colonial architecture, six stories high, with accommodations for 1,500 guests. The rooms will be arranged in family suites. Ignatz Roth, owner of Glen Island, is the principal stockholder in what will be known as the Glen Island Hotel Co., which will be capitalized for $250,000. At present the island is devoted to amusement purposes. The hotel will be completed in May of 1912. The hotel and the amusement park will be entirely separate.

Two 5-story tenement buildings, 50 x 90 ft., will be erected by the Domenico Construction Co., 716 East 134th St., on the southeast corner of Washington Ave. and 164th St. The cost is about $120,000.

Plans have been prepared by B. W. Levitan, 381 Fifth Ave., for the construction of a 5-story tenement building on the southeast corner of Audubon Ave. and 174th St. The Stratford Building & Improvement Co., 3787 Broadway, is the owner. The probable cost is $125,000.

Plans have been filed in the Bureau of Buildings for the construction of a school, which will be erected on the north side of Third St., near Thirteen Ave., at a cost of $40,000. The building will be 40 x 80 ft. and a 3-story brick structure. The owner is Mashiska Talmud.

L. C. Holden, 103 Park Ave., filed plans for the 4-story church and mission house to be built on the south side of Carlton St., 157.7 ft. east of Varick St., by the City Mission and Tract Society as the West Side Italian Mission. It will have a facade of brick with terra cotta and granite trimmings in Gothic style. The basement will contain a large reading room. The first floor will be for night classes, lectures, primaries, pastor and nurses, with a large auditorium chapel. The second will contain social and mission rooms, the upper part of the chapel and a lecture room for the junior department. On the third will be a gymnasium. Living apartments will be on the fourth. There will be a roof playground. The estimated cost is $100,000.

Brentmore Realty Co. will build a 9-story fireproof apartment on the south side of 55th St., 175 ft. east of Ninth Ave., at a cost of $150,000. It will have a frontage of 100 ft. and depth of 110, with accommodations for 123 families. Schwartz & Gross, 347 Fifth Ave., are Archs.

Plans have been filed by Ferd Butler & Oliver, for improving the Hotel San Remo, on the west side of Central Park West, from 74th to 75th Sts. The cost is $110,000. Margaret A. and Anna B. Brennan are owners.

John V. Van Pelt filed plans for the construction of a 3-story brick church and school which will be built by the Rev. Bert Galligan on the northeast corner of Webster Ave. and 171st St. It will cover a plot 65 x 86 ft. The cost is placed at $50,000.

NEW YORK, N. Y.—Plans are being prepared by Moore & Landsiedel, 148th St. and Third Ave., for the construction of two 5-story tenement buildings on the west side of Crotona Ave., 80 ft. south of 189th St., for the De Andrea Construction Co., 1719 Garfield St., Bronx, owner. The cost is about $70,000.

Plans are being prepared by Moore & Landsiedel, 148th St. and Third Ave., for the construction of a 5-story tenement building on the northeast corner of Walton Ave. and 182d St. The Beacon Falls Realty Co., 2446 Jerome Ave., Bronx, is the owner. The probable cost is $50,000.

Plans are being prepared by Neville & Bagge, 217 West 125th St., for the construction of a building at 36-38 West 27th St. The Realty Holding Co., 907 Broadway, is the owner. The buildings covering the site are being razed.

Plans are being prepared by W. L. Rouse & L. A. Goldstone, 38 West 32d St., for the construction of a 9-story apartment building at 138-144 West 71st St. The Allendale Building Co. is the owner. The approximate cost is $290,000.

Plans have been prepared by Maynicke & Franke, 25 East 26th St., for the construction of an industrial building for the New York Dock Co. at the Atlantic Basin, in Brooklyn. The building will be of reinforced concrete.

The National Cloak & Suit Co., 207 West 24th St., has purchased a site at 210-224 35th St., just off Seventh Ave., upon which will be erected a large building. Plans have not yet been prepared.

According to press reports the block bounded by 86th St., Henderson Pl., East End Ave. and the East River, known as the Henderson estate, has been bought by the Federation of Russian-Polish Hebrews of America for the purpose of erecting a 6-story building for the Beth David Hospital at No. 246 East 82d St. It will be built on a plot 72 x 90 ft. and will accommodate 150 beds.

WAVERLY, N. Y.—Bids will be received by the Board of Education for competitive plans until June 14 for a fireproof school.

BUFFALO, N. Y.—Brickell & Lamphear, 704 D. S. Morgan Bldg., have completed plans and are receiving bids for a 2-story and basement store and office building, 70 x 100 ft., of structural iron, brick and terra cotta to be erected at Main and Northampton Sts. by A. Schmidt, Jr. Estimated cost, $50,000.

Henry Schaefer's Sons will erect a store building, 50 x 100 ft., two stories, brick and steel fireproof construction, at Ellicott St. and Edna Place.

Plans have been completed for a stone and brick residence, two stories and basement, to be erected at Lincoln Parkway, near Delaware Park, by Spencer Kellogg, Jr., of Spencer Kellogg & Sons. Estimated cost, $42,000.

+MOSIER & SUMMERS, 1206 Seneca St., have been awarded general contract for construction of the Roman Catholic Cathedral to be built of white marble and to cost $600,000, to be erected at Delaware Ave. and Utica St., by the Diocese of Buffalo. Rt. Rev. Chas. H. Colton, Bishop, 1025 Delaware Ave.

+CHRISTIAN FLIERL, 1352 Genesee St., has been awarded contract for erection of the Humboldt Parkway Methodist Episcopal Church on Humboldt Parkway near Ferry St., 56 x 90 ft., brick and stone construction. John T. Cameron, Pastor, 788 Humboldt Parkway.

+TROY, N. Y.—We are officially advised that the CHARLES P. BOLAND CO., 30 Fourth St., Troy, N. Y., have been awarded the contract for the entire construction of the new school building known as the Central School, Troy, N. Y. R. Clipston Sturgis is Arch.

KEARNEY, N. J.—Bids will be received until June 9 by the Board of Education for the erection and completion of a 6-room extension auditorium and basement to school No. 6. Gerrish Newell is Pres.

NEWARK, N. J.—The estate of Philip N. Jackson has been purchased by the B'nai Jeshurun congregation from the Fidelity Trust Co., with the view of erecting a temple. The property is located at the northwest corner of High St. and Waverly Ave. The plot has a frontage of 98 ft. on High St. and a depth of 226 ft. on Waverley Ave. and 299 ft. on the north side running to Quitman St. with an alley 14 ft. in width.

PLAINFIELD, N. J.—Plans for a clubhouse to be erected in Watchung Ave., near the Federal building site were accepted last night by Plainfield Lodge, No. 885, B. P. O. E., and work on the foundations will commence soon. The structure will be of white brick, three stories in height and will be 50 x 150 ft. It will contain a roof garden theatre, grill and other features.

HACKENSACK, N. J.—Bids will be received by the Board of Education until June 7 for the erection of grammar school, No. 3, W. L. Stoddard, 30 West 39th St., New York, is Arch.

SOHO, N. J.—Bids will be received until June 6 by the Public Buildings Committee of the Board of Chosen Freeholders at Essex County Court-House, Newark, N. J., for constructing a home for nurses at the Essex County Isolation Hospital. Louis E. Voorhees is Comr.

DARLINGTON, PA.—Plans are being prepared by Cope & Stewardson, 320 Walnut St., Philadelphia, Pa., for the construction of a dormitory building for the Girl's House of Refuge. The building will be of stone and plaster and two stories high. The probable cost is $50,000.

+JOHNSTOWN, PA.—The contract has been awarded to GEORGE SCHENK & CO., Butler, Pa., for the construction of the First United Brethren congregation. The building will cost $100,000.

Plans are being prepared by Seymour & Paul A. Davis, 1600 Chestnut St., for the construction of a Y. M. C. A. building here. The building will be seven stories high of fireproof construction. The probable cost is $200,000.

MERCERSBURG, PA.—Plans have been completed by Day Bros. & Klauder, 925 Chestnut St., for the construction of a gymnasium for the Mercersburg Academy, Mercersburg. The structure will be of stone, terra cotta and steel and will be two stories in height. The estimated cost is $125,000.

+PHILADELPHIA, PA.—The contract has been awarded to GEORGE A. FULLER CO., Morris Bldg., Philadelphia, for the construction of a brick, concrete and steel fireproof office building for Theodore Presser Co., 1712 Chestnut St. Plans were prepared by Seymour & Paul A. Davis, 1600 Chestnut St. The cost is about $125,000.

+The contract has been awarded to JOHN DUNGAN, 920 Walnut St., for the construction of a 4-story ward building, 75 x 80 ft., for the Polyclinic Hospital, on Lombard St. west of 18th. It will be of brick and concrete, and will front on Naudain St., in the rear of the present hospital buildings. The cost will be $40,000. Plans are by Horace Trumbauer.

The Young Women's Christian Association purchased the two adjoining dwellings at Nos. 174-6 West Allegheny Ave., 29.5 x 63 ft. Hewitt & Paiste are designing a $100,000 building to be erected on the site.

+HARRISON & REA have a contract for the building for the Baptist Institute for the Christian Workers, which is to be built on the north side of Snyder Ave. west of Broad St. The building will be of brick, three stories in height, 94 x 142 ft. The contract price is $95,400.

+A store building will be erected at 615-617 Market St. by Kahn & Greenberg, 137 South 13th St. The structure will be of brick and four stories high. The cost is about $40,000. The contract is held by HARRY GILL, JR., 2200 Germantown Ave., Philadelphia.

+E. L. CUTHBERTSON has been awarded the contract for a 2-story fireproof brick, steel and terra cotta bank, 66 x 51 ft., to be built at 4336 to 4342 Main St., Manayunk, for the Manayunk Trust Co., planned by Peuchert & Wunder.

WILLIAMSPORT, PA.—Plans are being prepared by Bradley & Janke, Hale Bldg., for the construction of a hotel here. The Hotel Urban, Williamsport, is the owner. The structure will be of brick, terra cotta and steel and thoroughly fireproof. The probable cost is $150,000.

BALTIMORE, MD.—The Western National Bank, 14 North Eutaw St., will be improved at a cost of about $60,000. Haskell & Barnes, 301 North Charles St., Baltimore, have been commissioned to prepare plans, which include an addition and alterations. A new back building will be built as an extension of the old office. The interior will be remodeled and a marble front of artistic design installed. When the plans are completed local builders will be asked to submit bids.

+WASHINGTON, D. C.—Miller & Kopp have been granted a permit for the erection of a 4-story brick and steel apartment house at 52 Quincy St. The plans are by N. R. Grimm and the MELTON CONSTRUCTION CO. will build. The new apartment house will cost about $50,000.

WASHINGTON, D. C.—A permit for the erection of a 4-story brick, stone and cement tenement building at 1945 Calvert St., has been issued. The estimated cost is $60,000. Plans by M. T. Vaughn, Greendale St., Arch.

+WASHINGTON, D. C.—The contract has been awarded to the NORCROSS BROS. CO., Worcester, Mass., for the construction of the temple on 16th and S Sts., for the Masons. Plans were prepared by John Russell Pope, 527 Fifth Ave., New York City. The cost of the building is $1,000,000.

+PETERSBURG, VA.—The contract has been awarded to the HARRISON CONSTRUCTION CO., Petersburg, to construct a 5-story department store. A. Rosenstock & Co. are owners. The cost is about $40,000.

NORFOLK, VA.—Plans and specifications have been completed by Lee & Diehl, for the restoration of the Williamsburg court-house, which was recently destroyed by fire.

NORFOLK, VA.—Press reports state that it has been announced that bids for the construction of a joint railway and steamer terminal by the Old Dominion Terminal Co., to cost approximately $1,500,000, will be received until June 15, and that the construction of a union passenger station and office building by the Virginia, Norfolk & Western Ry. and Norfolk Southern R. R. for which last a bond issue of $2,000,000 is contemplated, would be begun July 1. The Frank J. Gould interest, which has acquired the electric traction and lighting systems, will bring power here, generated by the waters of the Roanoke River in North Carolina, 78 miles from Norfolk, and supply it to manufacturers and other users.

SUFFOLK, VA.—Bids will be received by James Knox Taylor, Superv. Arch., Treasury Dept., Washington, D. C., until 3 p. m., June 28, for the construction, complete (including plumbing, gas piping, heating apparatus, electric conduits and wiring and lighting fixtures) of the U. S. post-office at Suffolk, Va. Drawings and specifications may be obtained from the Custodian of site at Suffolk, Va., or at the discretion of the Superv. Arch.

RAEFORD, N. C.—Bids will be received by the Board of County Commissioners of Hoke County, N. C., until 11 a. m., June 9, for the erection and completion of a county court-house and jail. Plans and specifications prepared by Millburn-Heister Co., Washington, D. C.

WASHINGTON, N. C.—Bids will be received by James Knox Taylor, Superv. Arch., Treasury Dept., Washington, D. C., until July 5, for the construction (including plumbing, gas piping, heating apparatus, electric conduits and wiring and lighting fixtures) of the U. S. post-office and court-house at Washington, N. C. Drawings and specifications may be obtained from the Custodian of site at Washington, N. C., or at the discretion of the Superv. Arch.

UNADILLA, GA.—The city is reported to have voted in favor of a bond issue to the amount of $15,500 for sewer construction.

TLLAHASSEE, FLA.—The Governor has signed the bill appropriating $100,000 for the construction of a building for the use of the railroad commission, the Supreme Court and the Supreme Court library. The building will be constructed of fireproof material.

BIRMINGHAM, ALA.—An 18-story building will be constructed by the American Trust and Savings Bank on the southeast corner of 20th St. and First Ave. The estimated cost is $1,000,000. The buildings on the site will be razed.

BIRMINGHAM, ALA.—Plans are being prepared by W. C. Weston, Brown-Marx Bldg., for the construction of the Temple Emanuel. The cost is about $75,000.

GADSDEN, ALA.—Bids were received as follows on May 27 by James Knox Taylor, Superv. Arch., Treasury Dept., Washington, D. C., for the construction of an extension to the U. S. post office building at Gadsden, Ala.: David Getaz Son & Co., Knoxville, Tenn., $102,400; Algernon Blair, Montgomery, Ala., $107,750; Miles & Brodt Co., Atlanta, Ga., $99,600.

GREENWOOD, MISS.—Bids were received as follows on May 24, by James Knox Taylor, Superv. Arch., Treasury Dept., Washington, D. C., for the construction of a U. S. post-office at Greenwood, Miss. (a) limestone, (b) sandstone: Stuart-Randall Construction Co., Brookhaven, Miss., (a) $48,453, (b) $49,000; Newport Contracting & Engineering Co., Newport News, Va., (a) $52,470, (b) $54,470; Gus Hecker, Greenville, Miss., (a) $49,028. (Noted April 20.)

BASTROP, LA.—The construction of a new court-house here is contemplated as the present court-house is in poor condition.

MEMPHIS, TENN.—The congregation of Linden Ave. Christian Church has secured a site upon which will be constructed a church and rectory costing about $100,000.

+COLUMBUS, OHIO.—The contract has been awarded to D. W. McGRATH for the construction of a house for John G. Deshler at Bexley, Ohio, at $50,000.

NEWARK, OHIO.—Bids will be received by the Board of Education of McKean Township, Licking County, Ohio, until June 12, for a public school building to be erected in Sub-District No. 4 in the aforesaid Township. A. E. Hoskinson is Clk.

COLUMBUS, OHIO.—Bids will be received by the State Board of Agriculture until June 19 for building additions to the sheep exhibit and the cattle exhibit buildings at the Ohio State Fair Grounds, Columbus. Dawson & Holbrook, Outlook Bldg., Archs.

COSHOCTON, OHIO.—Bids will be received June 10 by the Board of Education of Tuscarawas Township, Coshocton County, for the construction of a school building in District No. 4.

DAYTON, OHIO.—Bids will be received by the Board of Education, C. J. Schmidt, Clk., until June 8 for tentative plans for the east wing of the Stivers Manual Training High School.

SUNBURY, OHIO.—Provisions have been made for the erection of a large school building here.

YOUNGSTOWN, OHIO.—Bids will be received by John I. Moran, Pastor of the Sacred Heart Church, until June 12, for the construction of an edifice at Lincoln Park entrance and Jackson St.

RICHLAND, IND.—Bids will be received by the Board of School Trustees until June 6 for erecting a 2-story brick 8-room school. Brubaker & Sterns, Indianapolis, are Archs.

VANBUREN, IND.—Bids will be received by William Doyle, School Trus., until June 7 for constructing a 2-story school. Hiram Elder, Custer Bldg., Marion, Ind., is Arch.

DETROIT, MICH.—Pollmar & Ropes, 23 Cleland Bldg., Detroit, are preparing plans and will soon take bids on a 3-story and basement apartment house, 115 x 60 ft., to be located on Second Ave., for Mrs. Carrie Dairs, care of Architect. Cost, $40,000.

+George D. Mason, 89 Griswold St., has awarded the general contract for the 2-story and basement hospital building for the City of Detroit. G. T. Kiefer, M. D., Health Officer, 223 St. Antoine St., to SCHMIEDSISMAN CO., 399 Beaufort St. Cost, $60,000.

+Smith, Hinchman & Grylls, 710 Washington Arcade, have awarded the general contract for the 10-story and basement store building, 40 x 120 ft., for Mrs. Helen P. Stevens, 1075 Woodward Ave., to A. J. SMITH CONSTRUCTION CO., 911 Hammond Bldg. Building to be of fireproof construction and cost $100,000.

+Baxter & O'Dell, 1024 Hammond Bldg., Detroit, have awarded the following contracts for the 4-story and basement apartment building, 90 x 105 ft., for J. E. Rocho, 349 Chene St.: Structural iron work, to WHITEHEAD & KALES, Beecher Ave. and M. C. R. R., and steam heating and plumbing, to ERNST BROS., 414 Woodward Ave. Cost, $43,000.

J. E. Mills, 510 Washington Arcade, Detroit, is preparing plans for a 4-story and basement addition, 34 x 80 ft., to a hotel on Clifford St. for C. L. Ramsdell, Oxford, Mich. Cost, about $45,000.

G. A. Mueller, 804 Breitmeyer Bldg., Detroit, is preparing plans for a 2 and 3-story theater building, 60 x 120 ft., for the Marks Amusement Co., J. C. McHenry, Secy., 1020 Penobscot Bldg. Architect will soon take figures. Cost, $60,000.

KALAMAZOO, MICH.—Spier, Rohns & Gehrke, 325 Chamber of Commerce Bldg., Detroit, Mich., are preparing plans for a 10-story and basement office building, 45 x 90 ft., for George H. Hamselman, Kalamazoo, Mich. The building is to be strictly fireproof. Cost, $150,000.

ESCANABA, MICH.—John D. Chubb, 32 North Clark St., Chicago, Ill., has been commissioned by John Christie, of Escanaba, Mich., to prepare plans for a 5-story and basement hotel, 80 x 150 ft., to cost about $100,000.

FLINT, MICH.—H. B. Clement, 45 State St., Detroit, Mich., will receive bids about June 1 on a 2-story and basement gymnasium, 45 x 75 ft., for the Young Women's Christian Ass'n of Flint, Mich. Cost, $40,000.

GRAND RAPIDS, MICH.—Robinson & Campau, Houseman Bldg., Grand Rapids, Mich., have been commissioned by the Salvation Army, of Grand Rapids, to prepare plans for a Rescue Home. Cost, $40,000.

+GRAND RAPIDS, MICH.—Osgood & Osgood, 521 Widdicombe Bldg., have awarded the general contract for the 4-story and basement furniture building, 130 x 130, for the Keller Brass Works, of Grand Rapids, to HAUSER OWEN AMES, Michigan Trust Bldg., Grand Rapids, Mich. Cost, $110,000.

KALAMAZOO, MICH.—F. D. Volkenburg, 613 Bank Bldg., has been commissioned by the Y. M. C. A., of Kalamazoo, Mich., to prepare plans for a new association building. Cost, $85,000.

+LANSING, MICH.—E. A. Blood, 127 West Allegan St., has awarded the general contract for the new 4-story "L" shaped hospital for the Lansing Hospital Ass'n., to WRIGHT & PRAUL, Ionia, Mich. Cost, $100,000.

FORT SHERIDAN, ILL.—Bids will be received by Lt.-Col. Thomas Cruse, Ch. Q. M., U. S. A., 556 Federal Bldg., Chicago, Ill., until June 5 for constructing an isolation hospital here.

CHICAGO, ILL.—Press reports state that fraternal organizations of Chicago have formed an organization for the purpose of building a hospital near the County Hospital to afford medical and surgical care to fraternity members at minimum and discount rates. The building, plans for which have been prepared, will cost about $100,000, according to announcement made yesterday.

BELOIT, WIS.—According to press reports a resolution has been introduced in the Common Council looking to the purchase of a site for a new city hall to replace the present building. Tentative plans prepared for a 2-story and basement brick structure. The estimated cost of both site and structure is placed at $55,000.

✚MADISON, WIS.—T. C. McCARTHY, Madison, was awarded the contract to do the brick work on the superstructure of the central portion of the new state house by the capitol commission, at about $110,000.

MILWAUKEE, WIS.—A building permit has been issued for the construction of the Boston store's large addition. According to the plans, the addition will be 130 × 150 ft. and five stories high. It will be of brick, stone and concrete. The addition will be erected at the rear of the present store on Fourth and Sycamore Sts. An arcade entrance will be provided on Sycamore St. The addition will be connected with the main store by a tunnel. The addition will greatly increase the floor space of the Boston store. The company has sufficient property remaining to build another large addition. The building will be modern and fireproof in every respect. It is to be completed before the holidays. The estimated cost is $200,000.

✚MILWAUKEE, WIS.—Contracts for the construction of a 7-story reinforced-concrete building for Munkwitz Realty Co., to be occupied by Blumenfeld, Locher & Brown Co., wholesale millinery, at Broadway and Mason St., were awarded as follows: Concrete, GREAT NORTHERN CONCRETE CO., Milwaukee; masonry, HENRY DANISCHEFSKY, Milwaukee; cut stone, PETER SCHMIDT CO., Milwaukee; carpenter, GEORGE MEMMELL, Milwaukee; electrical work, GEORGE F. ROHN, Milwaukee. The building will be 130 × 60 × 40 ft. in size. Cost, $100,000. Kirchhoff & Rose, Majestic Bldg., are Archs.

SHAWANO, WIS.—The County Board of Supervisors has accepted the plans prepared by Van Ryn & DeGelleke, Archs., Caswell Blk., Milwaukee, for the proposed $100,000 county insane asylum and poor house plant to be erected this year.

MUSCATINE, IOWA.—Bids will be received by the Board of School Directors, 407 German-American Bldg., until June 10 for erecting an addition to the Franklin School.

MARSHALLTOWN, IOWA.—The special election to vote on the matter of issuing $45,000 bonds for a new high school building was carried here recently. It will be a modern building, with heating, ventilation and lighting systems. Besides the regular class rooms, there will be rooms for laboratory, assembly room, physical science room, manual training department, domestic science and gymnasium.

✚FARIBAULT, MINN.—James Knox Taylor, Superv. Arch., Treasury Dept., Washington, D. C., has awarded the contract for the construction of a U. S. post-office at Faribault, Minn., to WILLIAM O'NEIL & SON CO., Faribault, Minn., at $56,052.

✚MINNEAPOLIS, MINN.—The general contract has been awarded to JAMES LECK, 311 Seventh St., Minneapolis, for the erection of the new syndicate building at 519-31 Nicollet Ave. It will be 155 × 131, 6-story and basement, of steel and reinforced concrete construction. It will have pressed brick, plate glass, concrete roof, tile, marble, elevators. The Minneapolis Leasehold Trust Co. is owner. The cost is $300,000. The contract for steel work was awarded to the MINNEAPOLIS STEEL & MACHINERY CO.

MINNEAPOLIS, MINN.—Plans for a $100,000 summer capitol, to be built something after the Washington mansion at Mount Vernon, were shown to the special Taft committee at the Commercial Club recently. A. E. Chamberlain prepared the plans.

ST. PAUL, MINN.—A permit was issued to Henry A. Kennedy for the construction of a $250,000 apartment house at Dale St. and Selby Ave., the site of the old car barns. The building will be four stories, of brick and stone. It will have a frontage on Selby Ave. of 221 ft. and will be 172 ft. deep.

CLARKFIELD, MINN.—Bids will be received by the Village Council until June 2 for constructing a village hall. Alfred Hulteen is Village Recdr.

KIMBALL, MINN.—Bids will be received by J. G. Reeves, Secy. Bd. Educ., Dist. No. 80, until June 9 for erecting a brick school. Fremont D. Orff, Minneapolis, is Arch.

MANKATO, MINN.—The Sisters of Notre Dame will probably erect a mother house and seminary on Mabel and Ruth Sts., which will cost $300,000.

WATERLOO, MINN.—Plans have been prepared by the Illinois Central R. R. Co. for the construction of a depot here. Cost, about $200,000. A. S. Baldwin, Chicago, Ill., is Ch. Engr.

WATKINS, MINN.—Bids will be received by the Village Council until June 8 for erecting a city hall and jail. F. W. Kenney, Minneapolis, is Arch.

EVERETT, KAN.—Bids will be received by J. A. Lednicky, School Clk., until June 5 for constructing a school.

✚OMAHA, NEB.—The contract has been awarded to ROBERT BUTKE, 38th and California Sts., for the construction of the McCord-Brady building on Twelfth St. The cost is $45,000. Plans were prepared by T. R. Kimball, McCague Bldg., Arch.

GARY, S. DAK.—Bids will be received by State Board of Charities and Corrections until June 1 for erecting a building for central heating plant at State School for Blind. A. H. Shoultz, Watertown, Wis., is Arch.

JAMESTOWN, N. DAK.—Bids will be received by M. Williams, Steward State Hospital, until June 7, for constructing a fireproof ward building. Hancock Bros., Fargo, N. Dak., are Archs.

MEDICINE LAKE, MONT.—Bids will be received by the County Board of Commissioners of Glasgow for erecting a county jail until June 7. W. B. Shoemaker is Clk.

KANSAS CITY, MO.—The Fred Miller Brewing Co., Milwaukee, Wis., has purchased a site, 40 × 130 ft., at Twelfth and Main Sts., for $350,000 and proposes to erect a 10-story fireproof building to contain its Kansas City branch, offices, stores, etc. Ernst G. Miller, Milwaukee, Wis., is Pres. and in charge.

EAST ST. LOUIS, MO.—The Kansas City & Missouri River Navigation Co., Kansas City, Mo., has applied for a permit to erect on the river front in East St. Louis, a 2-story building, 76 × 187 ft. On the east side of the building will be a wharf and on the west side a railroad platform and a waiting room for passengers. In the building will be offices and warehouses. The river front between the Eads Bridge and Merchants Bridge is owned by the Wiggins Ferry Co., and leased to an elevator concern, and subleased to the Navigation Co., with the consent of the Wiggins Ferry Co. Walter S. Dickey is Pres. of the Navigation Co., while other members of the board are W. R. Nelson, Leon Smith, J. F. Richards, W. F. Bland, R. A. Long.

ST. LOUIS, MO.—Plans have been filed by the Sunset Hunting, Fishing and Riding Club, for the construction of its proposed club-house at Sappington. The probable cost is $500,000. eJsse A. McDonald is Pres.

SPRINGFIELD, MO.—The approval of the country court was recently officially given to the plans for the completion of the new Greene county court house, as submitted by the Miller, Opal & Torbitt and Ellis Paxson, Supt. of Const. Bids for the construction work will be received soon.

✚HOPE, ARK.—James Knox Taylor, Supervising Arch., Treasury Dept., Washington, D. C., has awarded contract for the construction of a post-office at Hope, Ark., to MOOS & ROGERS, Marshall, Tex., at $39,300.

NOWATA, OKLA.—Bids will be received until June 12 by Edward Elliott, County Clk., for constructing a court-house.

PORTLAND, ORE.—A 4-story brick or reinforced-concrete hotel building is proposed by Strong Bros. to be built on the quarter block at the northeast corner of East Morrison and East Sixth Sts. At present the quarter block is covered with frame structures. The probable cost is from $50,000 to $60,000.

Plans have been prepared by H. J. Hefty for the construction of a store and hotel building to be erected by Andrew Gordon. The building will have a frontage of 100 ft. on Washington St., 105 ft. on Morrison and 4 ft. on Ella, and the first floor will be divided into five stories which will have plate-glass fronts on both Washington and Morrison. The construction will be of reinforced concrete. There will be a large central entrance on Washington St. for the hotel, which will contain 26 rooms. All will be outside rooms, and each will have an individual bay window. Each room will have large closet space and hot and cold water. The cost will be about $40,000, and the building will be completed in about three months.

✚MONROVIA, CAL.—The contract has been awarded to G. W. BELL, Monrovia, for the construction of the Vollmer Hotel. The cost is $50,000.

RIVERSIDE, CAL.—At a mass meeting April 27, the Glendora grammar school trustees voted in favor of a bond election to provide $50,000 for a site and for the erection of a new building. The school trustees were directed to have plans and specifications prepared and to decide upon a site.

SAN DIEGO, CAL.—Bids were received as follows on May 25, by James Knox Taylor, Superv. Arch., Treasury Dept., Washington, D. C., for construction of a U. S. post-office at San Diego, Cal.: (a)Limestone, (b) sandstone: R. P. Shields & Son, San Diego, Cal., (a) $212,500, (b) $213,750; F. O. Engstrom Co., Los Angeles, Cal., (a) $241,785; (b) $242,638; William H. Maxwell, Great Falls, Mont., (a) $191,730; Southwestern Construction Co., Los Angeles, Cal., (a) $219,000.

SAN FRANCISCO, CAL.—Plans for a $500,000 structure to be erected on the ground owned by the Charles King estate at Twelfth and Webster Sts., in Oakland have been drawn. It has not yet been decided whether the new building shall be erected to accommodate a theatre and small store roms or shall be built as a big department store.

SACRAMENTO, Cal.—According to reports, the Sacramento Electric Gas & Ry. Co. will erect at Tenth and K Sts. a 5-story building. The cost is about $100,000. George Holberton, San Francisco, Cal., is Ch. Engr.

OAKLAND, CAL.—The following bids were received for the construction of the city hall, from plans by Palmer & Hornbostle, New York City. Masonry, Gladding, McBean & Co., San Francisco, $137,342; E. J. Brandon, San Francisco, $137,342; E. J. Brandon, San Francisco, $144,500; H. P. Brigham, Oakland, $149,900; P. J. Walker, San Francisco, $154,000. Structural steel, Judson Mfg. Co., Oakland, $234,376; W. B. Kyle, $237,000; O. J. Walker, $246,990; American Bridge Co., $288,000; Pacific Rolling Mills, $303,027. Concrete work, Roebling Construction Co., $94,600, $104,000 and $106,800; Clinton Fireproofing Co., $105,000 and $106,500; Rickon Ehrhart Construction Co., $135,100; Continental Fire Proofing Co., $135,900 and $139,900; Foster Vogt Co., $153,897 and $154,897; P. J. Walker, $154,000; Lewis A. Hicks, $159,000. (a) Granite work and (b) setting, Webb Granite Co., $18,500; Raymond Granite Co., (a) $19,680, (b) $175,300; California Granite Co., (a) $23,640, (b) $218,000; McGilvray Raymond Granite Co., (a) $22,000, (b) $160,000. Indian lime stone work, McGilvray Stone Co., $147,000; Colusa Sand Stone Co., $150,425, $50,428, $47,149. Manti stone work and setting, Colusa Sandstone Co., $136,207, $45,553, $42,613; McGilvray Sand Stone Co., $138,000, $108,000. Architectural terra cotta, Gladding McBean Co., $65,000; Steiger Terra Cotta Co., $70,000; N. Clark & Sons, $73,000; Atlantic Terra Cotta Co., $110,240. Sheet metal roofing and skylights, Ford & Mallot, $13,650; Louis Kahrs, $14,536; Forderer Cornice Works, $14,970; Coulin & Roberts, $15,472; Geo. L. Zaeger, $16,835; Pacific Fire Extinguisher Co., $20,243. Electric wiring, J. G. Sutton Co., $40,000; Butte Engineering Co., $41,990; Newberry Bendheim Co., $44,800; Standard Elect. Construction Co., $45,750; Central Electrical Co., $48,000; Pacific Fire Extinguisher Co., $55,050; McFell Electric Co., $52,000, $48,500 less $10,500; L. K. Comstock, $57,000.

✚CORNWALL, ONT.—The contract for the new Bank of Montreal building has been let to BYERS & ANGLIN, Montreal.

SIMCOE, ONT.—Bids will be received by H. S. Falls Co., Simcoe, until June 1 for the erection of a store building here.

✚CORNWALL, ONT.—ALEX. CAMERON, Alexandria, Ont., has been awarded the contract for building the County House of Refuge, including plumbing and heating. The cost is $44,300. A. L. Weeks, Ottawa, Ont., is Arch.

BURNABY, B. C.—Bids will be received by the Minister of Public Works, Victoria, B. C., until June 12 for the erection and completion of a prison farm building. Specifications, etc., on application to Hugh A. Hodgson, Cotton Building, Vancouver, B. C.

WINNIPEG, MAN.—The Confederation Life Insurance Co. will erect a 10-story office building, 100 × 120 ft., on Main St., immediately opposite the Union Bank Bldg. J. K. MacDonald, Toronto, is Mgr. Dir.

WATER SUPPLY—IRRIGATION.

(✚*Denotes a contract awarded.*)

SALEM, MASS.—Plans have been completed by George F. Ashton, City Engr., for the installation of a high-pressure, salt-water system for fire protection. The plans call for 10,000 ft. of 16-in. pipe laid in the streets and 2,000 ft. in the harbor; and fire pumps of 5,000 gallons per min. capacity, at a pressure of 200 lbs.

LYNN, MASS.—On May 15 the Council authorized an issue of $75,000 of bonds for the construction of two pumping stations, one at Montrose and one at the east end of Glen Lewis section of Walden Point; the laying of 5,400 ft. of 36-in. pipe from Glen Lewis Point to Breeds Pond; and the raising of Breeds Pond to a height of 31 ft.

DEERFIELD, MASS.—The Deerfield Fire District has voted to spend $30,000 for water-works and fire protection. A concrete covered reservoir is to be built and five miles of 6 and 8-in. mains laid. William S. Johnson, 101 Tremont St., Boston, is Engr.

GENEVA, N. Y.—The city has authorized the expenditure of $40,000 for the installation of a slow sand filtration plant for the purification of the city's water supply. William S. Johnson, 101 Tremont St., Boston, Mass., is Engr.

✚BUFFALO, N. Y.—The contract has been awarded to EASTERN CONCRETE STEEL CO., 401 D. S. Morgan Bldg., Buffalo, for the construction of two brick tunnels leading from the Front Ave. pumping station of the water-works under the tracks of the New York Central R. R. Co., to be used as discharge mains for new pumps Nos. 3 and 4, at $22,462. Noted on May 25.

Bids will be received until June 2 by the Department of Public Works for c.-i. pipe and special castings, corporation cocks and plugs, hydrants, etc. F. G. Ward is Comr.

ROCKVILLE CENTRE (L. I.), N. Y.—The citizens, on May 17, voted to issue $6,000 of bonds for extensions to the water plant.

WHITE PLAINS, N. Y.—Bids will be received by the Board of Water Commissioners until June 9 for furnishing c.-i. pipe.

NEW YORK, N. Y.—Bids will be received by the President of the Board of Trustees of Bellevue and Allied Hospitals until 3 p. m., June 6, for all labor and material required for constructing and erecting and completing a sprinkler equipment at Bellevue Hospital, situated 26th to 29th Sts., First Ave. to East River, Boro. Manhattan, City of New York.

SCHENECTADY, N. Y.—Bids will be received until 1 p. m., June 6, by John H. Peters, Clk. Bd. of Supervisors of Schenectady County, for furnishing and installing a pneumatic water system.

*NEW YORK, N. Y.—We are officially advised that contracts were awarded by the Board of Water Supply as follows, on May 16: To MASON & HANGER CO., for Contract 63, for the construction of a portion of the city tunnel of the Catskill Aqueduct, a circular tunnel in rock, 15 ft. inside diameter, and about 21,200 ft. long. From the northerly end of the work in Yonkers, about 200 ft. north of the New York City line, between Jerome and Mt. Vernon Aves., the tunnel line extends in a general southerly direction through the Borough of The Bronx, under Van Cortland Park and Jerome Park reservoir, and thence beneath the Old Croton Aqueduct and Aqueduct Ave. to Burnside Ave., near University Heights. Tunnel construction will be carried on through five shafts, spaced from 3,500 to 5,000 ft. apart, and varying in depth from 215 to 240 ft.; to HOLBROOK, CABOT & ROLLIN CORPORATION, GEORGE B. FRY and THOMAS B. BRYSON for Contract 67, for the construction of a portion of the city tunnel of the Catskill Aqueduct, a circular tunnel in rock, 12 ft. and 11 ft. inside diameter. From the northerly end of the work in Union Square, at 14th St., the tunnel line extends in a general southerly direction through the Borough of Manhattan, under Fourth Ave., the Bowery, Delancey, Allen, Hester and Clinton Sts., thence beneath the East River to the foot of Bridge St., in the Borough of Brooklyn, and through this Borough under Bridge St. and Flatbush Ave. to the terminal shaft, Shaft 23, at Third Ave. and Schermerhorn St., and from Flatbush Ave. under Lafayette St. to the terminal shaft, Shaft 24, in Fort Greene [Park]. The work will be carried on through [illegible] shafts, spaced from 3,800 to 5,200 ft. [illegible] and varying in depth from 310 to 740 [ft.] Itemized bids for the above contracts [illegible] given under Contract Prices on May [illegible]

*NEW YORK, N. Y.—[Bids were re]ceived as follows on Ma[y illegible] by the Board of Water Supply for Co[ntract illegible] for completion of the Hudson Siph[on illegible]: A. C. Douglas, Niagara Falls, N. Y., $1,4[illegible]; [illegible] B. Winston & Co. and Brunchaud, [illegible]588; T. A. Gillespie Co., $1,650,000; Arthur Bros. Co., $1,755,168. The above totals are approximate only.

NEWARK, N. J.—Surv[eys] and borings will be made, it is reported, by engineers, under the direction of Mo[illegible] R. Sherrerd, Engr., State Water Supply [Comrs.], preliminary to the construction of [an] impounding reservoir near Pompton T[urnpi]ke at Midvale.

ORADELL, N. J.—The H[ackensack] Water Co., it is reported, will erect [a] concrete dam across the Hackensack Ri[ver] near here. Estimated cost, $50,000.

GLASGOW, PA.—The town [is] considering the construction of a water-works system. Henry Camp is Pres. of Cou[ncil].

PITTSBURG, PA.—Bids w[ill] be received until June 3 by Joseph G. A[rm]strong, Dir. Dept. Pub Wks., for furnishing and installing two 20,000,000-gallon [illegible] water ends and steam ends o[n] two pumping engines, at Aspinwall pumping station, per Contract No. 4-A; also six w[ater]-tube boilers, in three batteries of two [ea]ch; six mechanical stokers, economizer, [and] appurtenances in the pumping station, per Contract No. 4-B; and for furnishing and delivering a runner and shaft for 35 M. G. centrifugal pump at Ross pumping station.

BALTIMORE, MD.—The W[ater] Board on May 24 decided to reject all bi[ds] for the installation and erection of the pump at the Mount Royal pumping station. New specifications will be prepared. Alfred M. Quick is Water Engr.

CUMBERLAND, MD.—We [are] officially advised that James H. Fue[rtes], Consult. Engr., 140 Nassau St., New York, has been engaged as engineer-in-charge of construction of the proposed new water-works. Plans and specifications will probably be ready about Aug. 1. Noted on March 16 and May 25.

WASHINGTON, D. C.—Bids were received as follows, on May 27, by the Bureau of Yards and Docks, Navy Dept., Washington, for furnishing air, gas, water and electric meters for the various navy yards: Standard Water Meter Co., 245 Robinson St., Brooklyn, N. Y., Item 3a, $13,9[illegible]; Neptune Meter Co., 90 West St., New York, Item 3, $16,142; Henry R. Worthington, 115 Broadway, New York, Item 3a, $12,182, conditional; Westinghouse Electric & Mfg. Co., Washington, Item 4, $24,200; General Electric Co., Schenectady, N. Y., Item 1, $8,2[illegible]; Item 2, $6,700; (4) $24,200; if granted all, $37,500; Griscom-Spencer Co., New York, Item 3, $15,548; Hersey Mfg. Co., South Boston, Mass., Item 3a, $15,645; alternate, $12,351; National Meter Co., 84 Chambers St., New York, Item 3a, $16,692.

RICHMOND, VA.—Bids will be received until 4 p. m., June 14, by E. E. Davis, Supt. Water Dept., for furnishing and erecting two centrifugal pumps, piping and water meters; also for two 200-HP. electric motors, switchboard and wiring.

HIGH POINT, N. C.—The city will extend the water and sewer systems and construct additional streets and sidewalks. Bonds for $90,000 have been voted. J. A. Johnson is making surveys.

RED SPRINGS, N. C.—The Board of Public Works will receive bids until 3 p. m., June 27, for constructing water-works, including fireproof building, return tubular boilers, steam pumps, clear water basin and about three miles of 8-in. c.-i. water pipe laying, with hydrants and valves. Plans and specifications are on file at the office of A. B. Pearsall, Chn., and at the office of Gilbert C. White, Engr., Durham, N. C.

TARBORO, N. C.—Bids will be received by the Mayor and Board of Commissioners until 3 p. m., June 15, for water-works improvements, including a 500,000-gallon concrete filter plant, electric-driven turbine pumps, 260,000-gallon concrete storage reservoir, auxiliary electric pumping station and one mile of 10-in. c.-i. pipe. Plans and specifications are on file at the office of John A. Weddell, Clk., Tarboro, and at the office of Gilbert C. White, Engr., Durham, N. C.

ATLANTA, GA.—The Board of Water Commissioners has recommended the laying of new water mains under the bond issue in the following streets: Glendale Ave., 500 ft.; Brook St., 800 ft.; Mayson's Ave., 500 ft.; Haas Ave., from Glenwood to McPherson Ave.; West Tenth St., 1,500 ft.; Strong St., 250 ft.; Davis St., 3,000 ft. The committee also recommends laying pipe out of the regular appropriation in White's Alley, from Davis to Dover Sts.; and in Dover St., from Davis to Markham Sts.

ARCADIA, FLA.—The citizens have voted to issue $20,000 of bonds for water-works extension, $20,000 for sewers, and $10,000 for street improvements.

BILOXI, MISS.—E. C. Castanera, Supt. W.-Wks., has estimated that the extension of the water-works will require 16,000 ft. of 4-in., 45,200 ft. of 6-in. and 2,000 ft. of 8-in. mains; 112 new fire plugs; reservoir, two pumps and a firehouse, costing about $10,000, the house to be 1-story brick structure, reservoir of reinforced concrete, with a mosquito-proof cover, and capacity of 100,000 gallons; pumps to have a capacity of 500 and 700 gallons per minute, respectively. W. G. Henderson is City Clk.

RAYNE, LA.—Bids will be received until June 10 by J. D. Hunter, Mayor, for the following materials and supplies: Twelve feet of 8-in., 5,946 ft. of 6-in. and 250 ft. of 4-in. c.-i. water pipe, 16 6 × 6 × 4-in. and one 8 × 8 × 6-in c.-i. tees, one 6 × 6-in. c.-i. tee, four 6-in. c.-i. plugs, four 6-in. c.-i. sleeves and one 8-in. c.-i. sleeve, three 6-in. c.-i.

gate valves, 16 Gorey's fire hydrants, 4-in. valve opening, 4-in. hub end connection, 5⅞-in. standpipe with two 2½-in. nozzle for 24-in. trench, 5,000 lbs. of pig lead and 300 lbs. of tarred hemp.

LEWISBURG, TENN.—George Cadogan Morgan, Consult. Engr., 160 Washington Boulevard, Chicago, Ill., is preparing plans for the construction of a system of water-works here.

✚SILVERTON, OHIO.—We are officially advised that eight bids were received on May 22 by A. A. Sprague, Village Clk., for the construction of a system of 6-in. water mains and necessary appurtenances. The contract has been awarded to M. F. QUILL, at $15,12?.

HUBBARD, OHIO.—The city is considering an issue of bonds for the construction or purchase of a water plant. J. E. Schofield is Clk.

✚BARNESVILLE, OHIO.—We are officially advised that the contract has been awarded by the city to the U. S. CAST IRON PIPE & FOUNDRY CO., Rookery Bldg., Chicago, Ill., for water pipe, and to W. H. PATTERSON & SON, for laying pipe. Bids were opened on May 22.

CLEVELAND, OHIO.—The city is considering laying water mains in various streets. Robert Hoffman is City Engr.

PLYMOUTH, OHIO.—The City Council is considering the improvement of the water-works system by constructing a filtration plant. R. H. Mann is Clk.

NORTH JUDSON, IND.—George Cadogan Morgan, Consult. Engr., 160 Washington Boulevard, Chicago, Ill., is preparing plans for the construction of a system of water-works.

PORTER, IND.—Plans for the construction of a water-works system here are being prepared by George Cadogan Morgan, Consult. Engr., 160 Washington Boulevard, Chicago, Ill.

DETROIT, MICH.—Bids will be received by the Board of Water Commissioners until noon, June 13, for supplying seven 72-in. gate valves, seven motor-operated floor stands and nine hand-operated floor stands. Benj. F. Guiney is Secy.

REED CITY, MICH.—Plans are being prepared by George Cadogan Morgan, Consult. Engr., 160 Washington Boulevard, Chicago, Ill., for the construction of water-works here.

CHICAGO, ILL.—Contract will soon be let by the Board of Local Improvements for constructing water pipes in portions of Belden, Berenise and Exchange Aves., West Melrose, Melrose and several other streets. Charles V. Standish is Secy. Bd.

HAMILTON, ILL.—L. P. Wolff, St. Paul, Minn., is preparing plans for the installation of a water-works system.

CUDAHY, WIS.—Bids will be received by G. H. Wippler, City Clk., until 7 p. m., June 5, for the construction of water mains.

MADISON, WIS.—The Water Department has decided to lay 4 and 6-in. water main extensions. Estimated cost, about $11,000.

MILWAUKEE, WIS.—The Department of Public Works will soon award the contract for constructing a 30-in. c.-i. pipe water supply main in Greenbush St., from Lapham St. to Lincoln Ave.; 20-in. c.-i. pipe water supply main in Lincoln Ave., from Greenbush St. to Layton Boulevard. The 30-in. main will be approximately eight blocks long and the 20-in. main 25 blocks long; also for constructing a 30-in. main in 29th St., from Highland Boulevard to Cedar St.; in Cedar St., from 29th St. to 35th St.; in 35th St., from Cedar St. to St. Paul Ave.; in St. Paul Ave., from 35th St. to Arnauld Ave., and in Arnauld Ave., from St. Paul Ave. across Menominee Valley to National Ave., approximately 40 blocks. H. E. Briggs is Comr.

SHELDON, IOWA.—The City Council is receiving bids for furnishing materials and laying water mains in various streets and avenues. E. W. Smale is City Clk.

BENSON, MINN.—The city is considering the laying of water mains. Bids will be asked. R. R. Johnson is interested.

✚MINNEAPOLIS, MINN.—The Water Department has awarded the contract for furnishing 4,000 water meters to the NATIONAL METER CO., 84 Chambers St., New York, at $7 each.

Henry N. Knott, City Clk., will receive bids until 7.30 p. m., June 30, for filter equipment and devices.

NORTH MANKATO (Mankato post-office), MINN.—All bids for the proposed pump and power plant for the water-works have been rejected. New bids are asked until June 24. L. Donohue is Village Clk.

WAYZOTA, MINN.—W. D. Lovell, Consult. Engr., Minneapolis, Minn., is preparing estimates of cost for installing a water-works system and light plant.

WILLMAR, MINN.—Bids will be received until June 12 by the city for the construction of two purification plants and pumping stations. J. A. Rowat is City Engr.

TOPEKA, KAN.—The city will soon install an 8,000,000-gallon pump at the water-works plant. Jesse Shaw is Supt. W.-Wks.

EMERSON, NEB.—Bids will be received until June 2 by Guy Inman, Village Chn., for constructing about 4,0000 ft. of water mains, of 4 and 6-in. pipe.

✚JAMESTOWN, N. DAK.—The contract for water-works extensions has been awarded to C. H. PORRIT at $10,265.

LEWISTOWN, MONT.—Bids will be received by P. A. Chase, City Clk., until June 12 for trenching and laying 56,000 ft. of 4 to 12-in. water mains.

COLUMBIA, MO.—J. W. Danforth Co., 70 Ellicott Square, Buffalo, N. Y., has submitted the lowest bid to the city for the installation of a water-works system and electric light plant here.

BONHAM, TEX.—The city has voted $30,000 bonds for water-works improvements.

FORT WORTH, TEX.—The Mayor and City Commissioners are receiving bids for furnishing, in whole or part, materials and labor necessary for constructing a 5,000,000-gallon filtration plant. T. J. Powell is W.-Wks. Comr. J. D. Trammell is City Engr.

✚SAPULPA, OKLA.—The city has awarded the contract to the SOUTHWESTERN ENGINEERING CO., Oklahoma City, Okla., for constructing a water-works at $229,400. The plans call for three dams along Rock and Fuchee Creeks, with a capacity of 1,000,000,000 gallons of water, filter beds and settling basins. Burns & McDonnell, Scarritt Bldg., Kansas City, Mo., are Engrs.

✚BOISE, IDAHO.—The Secretary of the Interior has awarded the contract to the ILLINOIS STEEL CO., of South Chicago, Ill., for 1,850 tons of 60-lb. steel rails for use in constructing a branch railroad to Arrow Dam, Boise Irrigation Project, Idaho, at $64,306 f. o. b. cars, South Chicago.

The Secretary of the Interior has approved the contract entered into by G. B. Paul on behalf of the United States, with the SOUTH FORK MILLING CO., of Boise, by which the company agrees to deliver sawed pine lumber railroad ties to the Reclamation Service for use on the branch road to Arrow Rock Dam site, Boise Irrigation project. The contract calls for the delivery of 50,700 ties. The contract price is $38,525.

✚TUCSON, ARIZ.—The city has awarded the contract for a reinforced concrete standpipe of 1,000,000 gallons capacity to the CONCRETE CONSTRUCTION CO., of Tucson. The structure is to be 90 ft. high by 45 ft. in diameter, with a dome-shaped roof. The plans were prepared by Prof. L. A. Waterbury, C. E., of the University of Arizona.

SEATTLE, WASH.—Bids will be received until June 19 by the Board of Public Works for the construction of a penstock at Lake Union auxiliary water plant. R. H. Thomson is City Engr.

TACOMA, WASH.—Bids will be received until 2 p. m., June 6, by R. G. Valentine, Comr., Indian Affairs, Dept. of The Interior, Washington, D. C., for water-works for the Cushman School, Washington, H. H. Johnson, Supt., Tacoma.

TACOMA, WASH.—The lowest bid received for the fourth unit of the Green River gravity water system has been submitted by P. E. McHugh, Tacoma, at $417,441.

PORTLAND, ORE.—New water mains will be laid in various streets in the Warehouse District. J. W. Morris is City Engr.

UNION, ORE.—The City Council is considering repairing and extending the water system.

✚FORT BAKER, CAL.—We are officially advised that BRAUN, WILLIAMS & RUSSELL, INC., 503 Market St., San Francisco, Cal., have been awarded the contract for a 100,000-gallon steel water-storage tank here.

✚STOCKTON, CAL.—The contract, we are officially advised, has been awarded to BRAUN, WILLIAMS & RUSSELL, INC., 503 Market St., San Francisco, Cal., for a 100,000-gallon hemispherical-bottomed steel water tank for the State of California at the Stockton State Home.

MORGAN HILL, COL.—The citizens have voted $13,000 of bonds for the installation of a water-works system.

SAN LUIS OBISPO, CAL.—Bids will be received by the Clerk of the Board of Trustees until 7.30 p. m., June 5, for digging trenches for 11,784 lin. ft. of 10-in. converse patent lock joint pipe, and 1,590 lin. ft. of 6-in. screw casing and laying said pipe, and the construction of sandbox, dam and sluice gate, as shown on Plan No. 2, of water pipe lines for the city. George Story is Engr.

ALTURAS, CAL.—Bids will be received until 10 a. m., June 5, by the town for sinking and casing two wells.

FORT MASON (San Francisco post-office), CAL.—The following bids were received by the Constructing Quartermaster for a 6,000,000-gallon reservoir to be erected at the Presidio: J. J. Leonard, $41,951; Chambers & Heaphy, $42,465; J. Daniels & Co., $89,600; for constructing the pipe line, the Pringle & Dunn Co., San Francisco, bid $15,975.

QUINCY, CAL.—Bids will be received until June 8 by the Board of Supervisors of Plumas County, Quincy, for the construction of a reservoir at the new county hospital.

SAN FRANCISCO, CAL.—It is reported that the Great Western Power Co., Shreve Bldg., San Francisco, will construct a large reservoir at Great Meadows to irrigate about 300,000 acres of land.

VALLEJO, CAL.—All bids for the construction of the new reservoir on Fleming Hill have been rejected. New bids will be received until June 5.

MONTREAL, QUE.—We are officially advised that plans and specifications have been completed for a 6-acre final sand filter plant for the Montreal Water-works. It is expected that specifications will be printed and bids formally called for by the Board of Commissioners of Montreal, during the first part of June, bids to be opened about five weeks later. It is also expected that plans and specifications for the filtered water reservoir and preliminary filters will be completed during the latter part of June, ready for advertising. George Janin is Ch. Engr., Dept. Pub. Wks. Hering & Fuller, 170 Broadway, New York, are Consult. Engrs.

Bids will be received until noon, June 8, by the Board of Commissioners for the supply and delivery of 7,000 tons of c.-i. pipe. L. N. Senecal is Secy.

*TORONTO, ONT.—Bids will be received until noon, June 20, by F. S. Spence, Chn. Bd. of Control, for laying between 3,000 and 3,500 ft. of riveted steel pipe 6-ft. in diameter, in Lake Ontario, for the Water Works Department. For details, see advertisement in this issue.

BIGGAR, SASK.—Bids will be received until noon, June 13, by the City Secretary-Treasurer for the following: (1) trenching, laying and backfilling for c-i. water main, hydrants, valves, etc.; (2) for supplying c.-i. water mains and specials; (3) for supplying hydrants, valves and valve boxes; (4) for supplying and installing all pumping machinery; 5 for supplying and installing a compressed air storage tank; (6) for erection of a power-house; (7) for the construction of a concrete reservoir. Plans and specifications can be seen at the office of the Secretary-Treasurer, Biggar, or at the office of F. McArthur, Consult. Engr., Yorkton, Sask.

✚REGINA, SASK.—The contract for 12,000 ft. of water pipe has been awarded by the city to DRUMMOND, McCALL & CO., Montreal, Que., at $24,600.

SEWERS.

*(*Denotes that this work is advertised in Engineering News.)*

BUFFALO, N. Y.—The City Council has granted permission to Louis A. Kensey to construct an 18-in. and 15-in. tile sewer in Rutgers St., between Bailey Ave. and Suffolk St.

BUFFALO, N. Y.—The City Council has granted permission to the Larkin Co. to remove sewer in Mill Race Strip, between Hydraulic and Van Rensselaer Sts. and rebuild same of same dimensions and of concrete in Carroll St., between Hydraulic and Van Rensselaer Sts., to provide for erection of a 10-story factory and warehouse on the canal strip.

BUFFALO, N. Y.—Bids will be received by the Department of Public Works, 5 Municipal Bldg., until June 1, for the construction of sewers in various streets. Francis G. Ward is Comr.

NORTH TONAWANDA, N. Y.—Plans are being prepared for the installation of sewers here. The probable cost is $35,000.

TROY, N. Y.—Bids will be received until June 15 by the Board of Contract, James M. Riley, Secy. for the construction of about 250 ft. of 12-in. vitrified pipe sewer in First St., North Troy.

CHAMBERSBURG, PA.—The City Council has authorized the construction of sewers in the following streets: Market, from western borough line to the hospital; Queen, from East Point to Water and Queen extension to Federal; Washington, from Seventh to creek; German, from Sixth to alley west of Water; Catharine, from Sixth to Cedar; South, from Second to Water; Garfield, from Third to Main; McKinley, from Fourth to Second; Lincoln, from Second to Main; King, from Sixth to Garber; Grant, from Fifth to Second; Chambers, from Main to creek; Hazel entire; Commerce, Vine, Park, College, Ramsay; Sixth, as opened; Fifth, from Market to Grant; Montgomery to Sixth; Nelson, from Sixth to alley west of Fifth; Fourth, from Market to Catharine; Third St., from King to circus lot; Second, from North Point to Lincoln; Broad, from Scotland to Second; Scotland, from College to Broad; Wilson, from Norland to Broad; Edgar, from Norland to College; Philadelphia, from Wilson college to North Point; Main, from North Point to Western Maryland Railway; Wolf, from Commerce to Chambers; Water, from Queen to South; Hood, from Market to Commerce; Franklin, from Reservoir to Loudon; Federal, from King to Loudon; Garber, from King to Market St.

PITTSBURG, PA.—See item under Streets and Roads.

MEADVILLE, PA.—The City Council will receive bids until 8 p. m., June 7, for the construction of a sanitary sewer in West Alley from Mercer St. north to a point within 50 ft. of intersection of Norman Alley. Plans and specifications at City Engineer's office.

WILLIAMSPORT, PA.—Bids will be received until noon, June 2, by the Sewer Committee of Councils for the construction of approximately 337 ft. of 32-in. and 1,232 ft. of 30-in. terra cotta pipe sewer. Plans, etc., at office of City Engineer.

HUNTINGTON, W. VA.—Bids will be received by the Board of Commissioners until 1 p. m., June 10, for a 15-in. tile sewer in 21st St., from alley between Eighth and Ninth Aves. to alley between Ninth and Tenth Aves.; 12-in. tile sewer in the alley between Ninth and Tenth Aves., from 20th to 21st Sts.; 12-in. tile sewer in the alley between Rockwood and Dalton Aves., from 19th to 20th Sts.; 18-in. tile sewer in Second Ave., from Eleventh to Thirteenth Sts.; 12-in. tile sewer in Railroad Ave., from Twelfth to Thirteenth Sts.

RED SPRING, N. C.—Bids will be received by the Board of Public Works until June 27 for the construction of a sewer system, including 4½ miles of pipe sewer, 8 to 15 ins. in diameter, and appurtenances. Plans and specifications are at the office of A. B. Pearsall, Chn. Gilbert C. White, Durham, N. C., is Engr.

TOLOCCO, GA.—Bids will be received until June 20 by D. E. Hogsed, Chm. sewerage committee, until June 20 for the construction of a sewerage system.

ARCADIA, FLA.—This city has voted in favor of issuing bonds to the amount of $20,000 for sewer extensions. A. B. Welliford is one of the Trustees.

BUCYRUS, OHIO.—Ordinances have been adopted by the City Council declaring it necessary to construct sewers beginning at the intersection of Beal Ave. and Sandusky St., north in Sandusky St. to Southern Ave. and also in Mary St., Sears St., Perry St., Myers St., Ann St. and Jump St.

LORAIN, OHIO.—A resolution declaring it necessary to construct a sub-main sewer on West 26th St. between Lexington and Oakdale Avs., and on Oakdale Ave. between West 26th St. and West 27th St., has been adopted.

CIRCLEVILLE, OHIO.—Bids will be received until June 2 by J. W. Lowe, Dir. of Public Ser. for the construction of 1,446 lin. ft. of 20-i. vitrified tile sewers. O. W. Stiles is City Engr.

GALION, OHIO.—Bids will be received until noon, June 13, for the construction of sewers. E. C. Yochem is Clk.

✚ANTIGO, WIS.—The Board of Public Works has awarded the contract for the construction of the intercepting sewers to JOHN BROGAN, Green Bay, Wis., at $19,888. Other bidders: James McCabe, Fond du Lac, Wis., $18,749 (withdrawn); W. H. Fisher, Antigo, $22,847; Robert Nelson, Racine, Wis., $19,801; Walter Blake, Appleton, Wis., $25,817; John Stiefler, Wichita, Kan., $19,456 (illegal); Mulholland, King & Co., Kaugauna, Wis., $21,268; F. C. Robinson & Co., $21,500; A. Harding Co., Racine, $24,000; William Moran Co., Waukegan, Ill., $19,987. W. G. Kirchoffer, Madison, Wis., is Consult. Engr.

CUDAHY, WIS.—Bids will be received by G. H. Wippler, City Clk., until June 5 for the construction of sewers.

EAST MILWAUKEE, WIS.—Bids will be received until June 5 by Thomas B. Olsen, Village Clk., for sewer construction in various streets. Plans at the office of the Village Clerk.

FORT ATKINSON, WIS.—Bids will be received until noon, June 1, by the Board of Public Works for the construction of an 8-in. sanitary sewer in Maple St. F. C. Edwards, Mayor, is Chn. of Bd.

SHEBOYGAN, WIS.—Bids will be received by the Board of Public Works until June 1 for sewer, water and gas connections in various streets. Plans, etc., at office of Board.

OTTUMWA, IOWA.—Bids will be received in duplicate by W. W. Cummings, Chn. St. Com., until June 5 for the construction of a portion of the West End trunk and main sewer system. Plans, etc., at office of City Engineer.

SHELDON, IOWA.—Bids will be received by the City Council until June 1 for the construction of sanitary sewers. Plans can be had at office of the City Clerk.

ALBERT LEA, MINN.—Bids will be received by the City Council until June 1 for the construction of 9,513 ft. of 8-in. sewer, 16 to 18 ft. deep; 1,408 ft. of 10-in. sewer, 6 to 16 ft. deep; 208 ft. of 8 and 15-in. double sewer, 8 to 12 ft. deep; 28 ft. of 15-in. sewer, 8 to 10 ft. deep; 40 ft. 10 in. catch basin connections, 50 catch basins, 6 to 18 ft. deep, 304 6 or 8-in. and 39 6 or 10-in. Y's. William Barneck is City Engr.

BRAINERD, MINN.—Bids will be received by V. N. Roderick, City Clk., until June 19 for the construction of a general sewer. Plans at the office of City Clerk.

WILLMAR, MINN.—Bids will be received until June 12 for the construction of 12,316 ft. of 15 to 12-in. sanitary sewers. J. A. Rowat is City Engr.

OMAHA, NEB.—Bids will be received until June 5 for the construction of brick and concrete and reinforced-concrete sewers. Plans, etc., at office of George W. Craig, City Engr.

OAKES, N. DAK.—Bids will be received by I. B. Ward, City Audr., until June 5 for 10-in. sewer extension to be laid on East Union St., a distance of approximately 785 ft. C. A. Malander is Mayor.

SAN DIEGO, CAL.—The following bids were received by the Department of Finance, Ways and Means, for furnishing a portion of the cast-iron pipe and fittings for the construction of the municipal sewer system; Pacific Sewer Pipe Co., $31,542; Western Metal Supply Co., $33,396; J. S. Schirm, $33,504; W. J. Bailey, $33,513; A. H. Burch Co., $33,575. The Glazed Cement Pipe Co., of San Diego, bid $26,648 for furnishing cement pipe (bid rejected). The contract will probably be awarded to the Pacific Sewer Pipe Co., I. W. Hellman Bldg., Los Angeles. Bids will be opened June 3 for the second lot of pipe.

COALINGA, CAL.—Bonds to the amount of $40,000 have been voted for the construction of sewers.

ESTEVAN, SASK.—Bids will be received until June 6 by L. A. Duncan, Secy.-Treas., for the following: (a) Laying 2,500 ft. sewer; (b) laying 2,500 ft. water main; (c) constructing 85,000 sq. ft. concrete walks.

GARBAGE DISPOSAL.

(✚Denotes a contract awarded.)

NEW YORK, N. Y.—Bids will be received by Lawrence Gresser, Pres. Boro. Queens, until 11 a. m., June 7, for the final disposition of garbage in the Fifth Ward of the Borough of Queens, City of New York, during the months of June, July, August and September, 1911, and furnishing and operating the necessary dumps, scows, tugs, tools, appliances and labor therefor.

Bids were received on May 19 as follows by W. H. Edwards, Comr. St. Cleaning, for furnishing materials and completing abandoned contract for the final disposition of ashes, street sweepings and rubbish delivered on board of deck scows or other vessels at waterfront dumps of the Department of Street Cleaning, Boro. Manhattan, on Hudson River, and Clinton St. dump, on the East River: (a) Scows with deck area of not more than 1,600 sq. ft., and averaging a capacity of 322 cartloads each; (b) scows, deck area of more than 1,608 sq. ft. and not more than 1,750 sq. ft., and averaging a capacity of 371 cartloads each; (c) scows having a deck area of more than 1,750 sq. ft. and not more than 2,250 sq. ft.; and averaging a capacity of 4,135 cartloads each; (d) scows having a deck area of more than 2,250 sq. ft., and averaging a capacity of 540 cartloads each; (e) all vessels other than deck scows at a uniform price per full load, the capacity as stated by the bidder in his bid or estimate: Charles H. Beckwith, (a) $59, (b) $60.40, (c) $95.60, (d)

$119, (e) $95; Borough Paving Co., (a) $84, (b) $89, (c) $104, (d) $114, (e) $99; Daly & Ivins, (a) $75, (b) $75, (c) $106, (d) $129, (e) $92; Harper Dredging Co., (a) $74.50, (b) $79.50, (c) $94.50, (d) $104.50, (e) $82.50.

✚GARFIELD, N. J.—The contract for oiling the macadamized streets of the borough has been awarded to the STANDARD OIL CO.

STREETS AND ROADS.

*(*Denotes that this work is advertised in Engineering News.)*

✚PITTSFIELD, MASS.—The contract for laying 4,000 sq. yds. of vitrified brick paving in Finn St., from North to Pearl Sts., has been awarded to DANIEL J. WALSH, Pittsfield, Mass., at $2.58 per sq. yd. for Mack brick. The other bids on the same kind of brick were: Birnie, Adams & Ruxton Co., Springfield, Mass., $2.82; Fred T. Ley & Co., Inc., Springfield, Mass., $2.74; G. W. Van Ranken, Schenectady, N. Y., $2.82. On Bessemer blocks: Luke D. Mullen, Boston, Mass., $2.79. Porter brick: Dollard & Heeron, Albany, N. Y., $2.63; J. B. O'Rourke, Boston, Mass., $2.47.

*HOLYOKE, MASS.—Bids will be received until 2 p. m., June 16, by the Board of Public Works forpaving blocks. Oscar C. Ferry, is Asst. Clk. For details, see advertisement in this issue.

✚NEW HAVEN, CONN.—The contract for laying cement sidewalks required by the city for the year 1911 has been awarded to H. H. Smith, New Haven., at 80 cts. per sq. yd.

STAMFORD, CONN.—The Board of Appropriation has voted to spend $20,000 for paving Elm St., and $6,000 for paving Bedford St. Creosoted wood blocks will probably be used. Paul Nash is Supt. Pub. Wks., and Joseph H. Provost is City Clk.

ALBANY, N. Y.—The sum of $4,000,000 has been appropriated for the extension and improvement of State roads, as follows: for the completion of a highway from New York to Rouses Point, $1,500,000; for a route in the Central Adirondacks, between Fulton Chain and McKeever, $500,000; for improving parts of Route 7, completing a stone road from Albany to Binghamton, $625,000; for improving highway Route 4 in Orange and Sullivan Counties, $1,200,000.

GLOVERSVILLE, N. Y.—Bids will be received by the City Clerk, until June 6, for 13,000 sq. yds. of brick paving; also alternative bids for 7,800 sq. yds. bituminous-bound macadam.

MALONE, N. Y.—Franklin County will issue bonds for $500,000, to be used in the construction of a county road system.

✚NEW YORK, N. Y.—We are officially advised that contracts for paving four streets were awarded on May 23 to the STANDARD BITULITHIC CO. at approximately $78,000.

NEW YORK, N. Y.—Bids will be received by Alfred E. Steers, Pres. Boro. Brooklyn, until 11 a. m., June 7, for paving, curbing, constructing sidewalks, etc.

NEW YORK, N. Y.—Bids will be received until June 12 by Lawrence Gresser, Pres. Boro. Queens, Borough Hall, Fifth St. and Jackson Ave., for paving, regulating, grading curbing, recurbing, flagging and resetting manholes cowers in various streets and avenues in the Boro. of Queens.

TARRYTOWN, N. Y.—The property owners are considering a proposition to pave the old post road with brick, between Hastings and Scarborough. The Sleepy Hollow County Club is interested in this improvement.

✚ATLANTIC CITY, N. J.—Contracts for paving Vermont and Congress Aves. with bitulithic have been awarded to the UNITED PAVING CO., Bartlett Bldg., Atlantic City, at $109,218, and $10,311. The other bids were: W. R. Keith, $112,350, and $10,311; Standard Paving Co., $113,997, and $10,470.

✚CAMDEN, N. J.—We are officially advised that bids were received and contracts awarded on May 24, as follows:

Browning Road: E. C. HUMPHREY (awarded contract), $9,930; Kelly McFeeley Co., $9,990; J. F. Shanley Co., $10,230.

White Horse Pike, from Collings Road to Laurel Mill Road: E. C. Humphrey, $75,-734; Kelly McFeeley Co., $73,615; J. F. SHANLEY CO. (awarded contract), $73,259; Belmont Paving & Construction Co., Amiesite, $76,761; Texas asphalt, $66,597.

White Horse Pike, from Laurel Mills to Berlin, Kelly McFeeney Co., $42,706; J. F. Shanley Co., $43,705; GIBBS & CO. (awarded contract), $42,302; E. C. Humphrey, $43,-443. F. W. George is Clk. Camden County Bd. of Freeholders.

JERSEY CITY, N. J.—Bids will be received by the Shade Tree Commission, A. T. Hastings, Jr., Secy., until 8 p. m., June 6, for grading about 70,000 cu. yds. at Montgomery Park according to plans and specifications on file with John T. Withers, 1 Montgomery St., Jersey City.

Appropriations have been made by the Board of Finance for the following improvements: for repaving Sherman Pl., from Summit to Central Aves., $7,125; for repaving Ninth St., from West Hamilton Pl. to Brunswick St., and Brunswick St., from Pavonia Ave. to Tenth St., $11,000; for repaving Henderson St., from Pavonia Ave. to the Hoboken line, $21,073.

IRVINGTON, N. J.—Bids will be received by M. Stockman, Town Clk., until June 5, for grading, flagging and curbing Maple Ave., and paving with telford curbing and flagging 22d St. and Tremont Terrace.

NEW EGYPT, N. J.—Surveys are being made for a proposed new gravel road between New Egypt and Lakewood, a distance of 20 miles.

NEW BRUNSWICK, N. J.—Bids will be received by the Boards of Chosen Freeholders of the Counties of Middlesex and Somerset, at the Court House in New Brunswick, until 11 a. m., June 1, for grading and macadamizing a road known as the Franklin Park-Kingston Road, about five miles long. The work includes: 36,983 cu. yds. excavation, 43,476 sq. yds. macadam road, 1,060 sq. yds. driveway. Thomas E. Gibson is Chn. Joint Com.

PATERSON, N. J.—Bids will be received by the Road Commission of Board of Chosen Freeholders, William H. Mason, Chn., until June 14 for macadamizing the Midvale-Greenwood Lake Road.

WEST NEW YORK, N. J.—Bids will be received by James L. Wolfe, Town Clk., until 8 p. m., June 6, for improving 15th St., west of Bergenline Ave.

HARRISBURG, PA.—We are officially advised that the lowest bid received May 18, by the tSate Highway Department, L. F. Neefe, Ch. Clk., for a road in Selinsgrove Borough, was from H. G. Hinckle, Inc., Altoona, Pa., at $13,645 for Mifflin County, limestone top with Watsontown or No. 1 Clearfield block and concrete pipe culverts.

The lowest bids received May 24 were as follows: For a 10,467 ft. road in Colley Township from E. Whalen, Towanda, Pa., at $21,930 for native stone top and bottom with concrete pipe culverts.

For a 3,010 ft. road in Armagh Township from R. B. Taylor, Bellfonte, Pa., at $7,261 for native stone bottom Vilray limestone top and corrugated pipe culverts.

For a 4,457 ft. road a Delaware Township from H. G. Hinkle Inc., Allcona, Pa., at $6,520 for sandstone bottom Mifflin County limestone top with corrugated pipe culverts.

For a 13,178 ft. road in Beaver Township from J. E. Francis, Punxsutawny, Pa., at $40,495 for native stone bottom, Bu Bois and Butler brick top with corrugalea pipe culverts. Noted May 18.

BELLEVUE, PA.—Bids will be received by James M. Simeral, Clk. of Council, until 6 p. m., June 6, for sub-grading, curbing and paving Dakota Ave., from Forest Ave. to the north line of Bellevue Borough. Approximate quantities are: 2,500 cu. yds. grading, 2,860 lin. ft. curbing, 4,700 sq .yds. paving. Plans and specifications can be seen and bidding blanks obtained at the office of the Borough Engineer, Room 708, Fitzsimons Bldg., Pittsburg, Pa. John McBride is Boro. Engr.

✚MONESSEN, PA.—The contract for paving various streets has been awarded to the HALLAM CONSTRUCTION CO., Washington, Pa., at $45,452. F. J. Erbeck bid $47,318.

✚NEW CASTLE, PA.—The contract for grading Atlantic Ave. has been awarded to D. E. Sullivan, at $17,818. The other bids were: Burns Brothers, $23,714; Woods & Golder Construction Co., $21,255; New Castle Construction Co., $24,149.

All bids received for opening and grading Mercer St. have been rejected as too high, and the work will be readvertised. The engineer's estimate of this work is $14,885.

NATRONA, PA.—Bids will be received by the Board of Commissioners of Harrison Township until 7.30 p. m., June 6, 1911, for grading, curbing and paving Spruce St., from Railroad St. to River Ave. The approximate quantities are as follows: grading, 2,500 cu yds.; curbing, 2,900 lin. ft.; paving, 4,400 sq. yds.

NORTH BRADDOCK (Braddock post-office), PA.—Bids will be received by E. A. Stewart, Boro. Engr., until 3 p. m., June 2, for improving various streets.

PITTSBURG, PA.—Bids will be received by P. J. Jacobus, Chn. St. Com., Boro. of Arnold, until 8 p. m., June 5, for grading and curbing Kenneth Ave., from Drey St. to the Arnold Borough line.

✚The contract for improving South 18th St. has been awarded to M. O'HERRON & CO., South First and McKean Sts., at $88,-330, and for repaving Greenfield Ave. to BOOTH & FLINN, at $6,395.

Bids will be received by the Board of Commissioners of Harrison Township until 7.30 p. m., June 6, 1911, for the sewering, grading, curbing and paving of Chestnut St., from present paving at Garfield St. to the northerly line of River Ave. The approximate quantities are as follows: Grading, 1,500 cu. yds.; curbing, 2,300 lin. ft.; paving, 2,600 sq .yds.; 1,140 ft. of 12-in. storm sewer, with all necessary appurtenances.

SHARPSBURG, PA.—Bids will be received by T. J. McGiven, Boro. Clk., until 5 p. m., June 6, for repaving and repairing and otherwise improving North Canal, Clay, Tenth, Fifteenth and Clifton Aves. Plans and specifications may be seen at the Borough Office, 1113 North Canal St.

✚WILKES-BARRE, PA.—The A. J. Barber & Co. have awarded a contract for laying 60,000 sq. ft. of granolithic sidewalk and 7,500 lin. ft. of curb on their property to BILLEY & HARKNESS, at $11,000.

Bids will be received by the Town Council of the Borough of Forty Fort until 7.30 p. m., June 5, for paving and curbing Wyoming Ave., from Owen St. to the angle at the stone bridge, with vitrified fire-clay paving block, on a concrete base, and steel-protected concrete curb, according to the plans and specifications on file in the office of Smith & Welles, Boro. Engrs., Coal Exchange Bldg., Wilkes-Barre.

ANNAPOLIS, MD.—Bids will be received until noon, June 5, by Philip E. Porter, City Clk., Annapolis, for paving Second and Madison Sts. with bituminous macadam, grading, setting and resetting curb and other incidental work, according to plans and specifications on file at the office of J. C. Little, City Engr.

BALTIMORE, MD.—Bids will be received by the Board of Park Commissioners, William S. Manning, Gen. Supt., until 11 a. m., June 7, for the construction of roadway and paths in Wyman Park, from Cedar Ave Bridge to the main road of Wyman Park, north of the United States Marine Hospital, including grading of roadways and slopes, scarifying Cedar Ave. roadbed, from Cedar Ave. Bridge to Viaduct Ave.; construction of storm-water drains, concrete catch basins, laying fiber conduit; construction of light post foundations construction of concrete curb, construction of retaining walls, bitumen macadam work for paths and roads, etc.

WASHINGTON, D. C.—Bids will be received at Bureau of Yards and Docks, Navy Department, Washington, until 11 a. m., June 17, for paving at the navy yard, Norfolk, Va. Plans and specifications are obtainable on application to bureau or to commandant of navy yard. R. C. Hollyday is Chief of Bureau.

SPRINGFIELD, TENN.—Bids will be received by Robertson County Pike Commission until noon, June 20, for grading, ditching and macadamizing about 50 miles of public roads. J. E. Washington is Chn. of the Comn.

DRESDEN, OHIO.—We are officially advised that the Riggs & Sherman Co., Toledo, Ohio, have been engaged by the Village of Dresden as engineers for the proposed street improvemnt.

CANTON, OHIO.—Bids will be received by the Board of County Commissioners until June 4 for the North Industry Road Improvement. The road will 2¼ miles long, 20 ft. wide through the town of North Industry, and 17 ft. elsewhere.

CINCINNATI, OHIO.—Bids will be received by the Board of County Commissioners until noon, June 16, for improving the Loveland and Madeira road, from Remington to the Camargo pike, in Symmes Township; for constructing a concrete culvert on South Ave., culvert and approaches on Betts Ave. and a bridge on Dunlap Creek Road.

GREENVILLE, OHIO.—Bids will be received by the Commissioners of Darke County until 10 a. m., June 10, for improving three roads, a total of 7,169 ft. Frank Snyder is County Audr.

LAKEWOOD, OHIO.—Bids will be received by B. M. Cook, City Clk., until noon, June 5, for paving Andrews, Hopkins and Winchester Aves.

PORTSMOUTH, OHIO.—Bids for paving have been received as follows: (A) J. A. Grimes, (B) Kelley Bros., (C) Monroe & Son, (D) Knapps Bros. Lawson St.: (A) $1,530; (B) $1,275; (C) $1,395; (D) $1,405. Broadway: (A) $8,069; (B) $6,477; (C) $7,515; (D) $7,027. Monroe St.: (A) $1,290; (B) $1,099; (C) $1,178; (D) $1,169. Eighth St.: (A) $16,558; (B) $15,285; (C) $16,067; (D) $15,207. Offnere St.: (A) $15,029; (B) $12,892; (C) $13,957; (D) $12,799.

SANDUSKY, OHIO.—Bids will be received by the Board of Commissioners of Erie County until 10 a. m., June 12, for reconstructing the State Road, beginning at the corporation line of Vermilion Village and running South 1,700 ft., in accordance with the plans, specifications, descriptions and bills of material, now on file in the office of the County Surveyor. John Deist is County Audr.

STRUTHERS, OHIO.—Bids will be received by the Trustees of Poland Township, W. J. Maurice, Clk., until 2 p. m., June 7, for grading and macadamizing Section 1 of the Poland and New Middletown Road, a distance of about two miles, according to plans and specifications on file in the office of George M. Montgomery, Road Supt., 1818 Wilson Ave., Youngstown, Ohio.

✚ZANESVILLE, OHIO.—The contract for paving the extension of Greenwood Ave. has been awarded to J. EMERY & SON, at $6,251.

COLUMBUS, OHIO.—Bids will be received by the County Commissioners until June 21 for the improvement of the following roads in Franklin County: Hilliard and Rome Pike, six miles in length; Wilcox road, 9,550 ft.; grading the grounds of the tuberculosis camp, and constructing concrete walks; constructing a reinforced-concrete culvert on the Canal Winchester Pike.

WAUSEON, OHIO.—Bids will be received until June 5 by L. H. Deyo, City Clk., for paving Shoop Ave., from Leggett to Linfoot Sts.

INDIANA.—Bids for road construction will be received as follows:

Until noon, June 5, by Commissioners of Carroll County at Delphi, Ind., for the construction of a gravel road in Tippecanoe Township. M. G. Haun is County Audr.

Until noon, June 15, by Commissouers of Pulaski County at Winamac, Ind., for the construction of a highway on line between Pulaski and Starke Counties. Wm. E. Munchenburg is County Audr.

WASHINGTON, IOWA.—Bids will be received by Carl M. Keck, Chn. Improvement Com., until June 7 for paving with brick North Iowa Ave. Wallace Treicher, Rock Island, Ill., is Engr.

✚WELLINGTON, KAN.—We are officially advised that the contract for paving Twelfth and Olive Sts. was awarded on May 22 to EBY & RAMSEY, Wellington, at $57,372. The other bids were: Cleveland Trinidad Asphaltic Paving Co., Kansas City, Mo., $61,907; The Raw Paving Co., Topeka, Kan., $62,244; Warner-Quinlan Paving Co., Wichita, Kan., $63,119.

JOPLIN, MO.—Bids will soon be asked for paving Main St., from Third to Tenth Sts., with creosoted wood block. J. B. Hodgdon, City Engr., estimates the cost of the improvement at $39,784.

ST. LOUIS, MO.—Bids will be received by the Board of Local Improvements until 2 p. m., June 9, for the improvement of 18th and 19th Sts., from State St. to Illinois Ave., and 27th St., from State St. to Summit Ave.

LITTLE ROCK, ARK.—Bids will be received by the Commissioners for East Fourth Street District, Claude Ringo, Secy., until 2 p. m., June 8, for paving with concrete block or asphaltic surface on concrete foundation East Fourth St., from Main St. to Rector Ave. bids to be addressed to E. A. Kingsley, Engr., Markham and Center Sts., where plans and specifications are on file.

DENVER, COLO.—Bids will be received by the Board of Public Works until June 3 for paving South Broadway.

POCATELLO, IDAHO.—Bids will be received by the Rossfork Road Commission, J. P. Congdon, Comr., until June 17, for constructing a macadam road between Rossfork and Gibson-Bingham Cou[illegible]

SALT LAKE CITY, UTAH.—We are officially advised that bids were received on May 19, for paving Extension No. 43, as follows: P. J. Moran, $57,111; Strange & Maguire, $58,430. Extension No. 63, P. J. Moran, $43,153; Strange & Maguire, $44,264; on May 20, in Extension No. 70, P. J. Moran, $58,049; Strange & Maguire, $59,580. G. F. McGonagle is City Engr.

✚PHOENIX, ARIZ.—We are officially advised that contracts for road construction were awarded on May 20 as follows: Prescott-Flagstaff road, to J. A. T[illegible]ERTH, Prescott, Ariz.; Tucson-Bisbee road, to GRIFFITH & POEBEN, Tucson. Noted on May 4.

AUBURN, WASH.—Bids will be received by George Meade, Town Clk., until June 7 for constructing about 16,000 sq. yds. hard-surface pavement, 30,000 sq. ft. concrete walks, and 7,000 lin. ft. concrete curb.

CENTRALIA, WASH.—Bids will be received by the City Council until June 6 for paving with asphalt, bitulithic vitrified brick or wood blocks, portions of Tower Ave., Third and Second Sts., in all, 8,400 sq. yds.; also paving with vitrified brick, wood blocks, asphalt or bitulithic, 6,435 sq. yds. on Tower Ave. W. H. Hodge is City Clk.

VANCOUVER, WASH.—Bids will be received on June 5 and June 19, for street improvements estimated at $292,790. The work will consist of paving, grading, macadamizing, gravelling and constructing concrete walks, curbs and gutters. H. H. [illegible] is City Engr.

✚KELSO, WASH.—A contract for paving with bitulithic in Improvement District No. 11 has been awarded to the ANDERSON CONSTRUCTION CO., Tacoma, Wash., at $76,300.

✚FRESNO, CAL.—THOMPSON BROS were awarded a contract by the City Council for grading and curbing Mariposa Ave. and constructing concrete culverts thereon at $10,850. E. W. REDMAN was awarded a contract, at $6,785, for similar work on Raisin St.

✚HERMOSA BEACH, CAL.—The BARBER ASPHALT PAVING CO., Central Bldg., Los Angeles, Cal., has been awarded a contract for improving Summit Ave. and cross streets, at an aggregate amount of $[illegible].

✚LODI, CAL.—The City Trustees have awarded a contract to the BARBER ASPHALT PAVING CO., Los Angeles, for asphalt paving on four streets in the business section of the city, at $35,69[illegible]. The City Engineer's estimate was $42,000.

MONTREAL, QUE.—Bids will be received by the Board of Commissioners until noon, June 2, for constructing asphalt, mastic and cement concrete sidewalks. L. N. Senecal is Secy. Bd.

MANUFACTURING PLANTS.

(✚Denotes a contract awarded.)

BROCKTON, MASS.—A factory to be rented for shoe manufacturing purposes is contemplated here. Arthur H. Andrews, Pres. of the Board of Trade, and Frank S. Farnum, Pres. of the Commercial Club, are interested.

LOWELL, MASS.—According to reports, Arthur R. Sharp, Treas. of the Hamilton Mfg. Co., makers of cotton goods, has been authorized to commence construction of the proposed mill to occupy the site of the No. 1 mill and part of the No. 2 mill of this company, both of the latter to be torn down. Specifications call for a building of standard mill construction about 300 x 150 ft. and four stories high. The building will extend for about 50 ft. of its entire length over the Pawtucket Canal. While the deeds of this part of the Hamilton property allow such construction, that part of the building over the canal can only be 75 ft. high, or about four stories. The mill will be built with a dead wall at its lower end, so that it may eventually be extended 300 to 600 ft., as may be desired. That part of the roof not over the canal will be constructed so that two additional stories can be added by raising the roof when desired.

OXFORD, MASS.—Samuel Hathaway, of New Bedford, inventor of a new kind of paint, is to organize a $250,000 corporation for its manufacture and build a factory in Oxford. The building will be 200 × 100 ft. and two stories high, according to reports.

BONDSVILLE, MASS.—The Boston Duck Co. is about to build an addition to its mill, to be 140 ft. × 100 ft., of modern mill construction.

WESTERLY, R. I.—It is reported that a cold storage warehouse will be erected by Armour & Co. in this city to replace the present building which will be razed during the improvements by the New York, New Haven & Hartford R. R. Co. this summer.

HARTFORD, CONN.—The Colt's Patent Fire Arms Mfg. Co., Vandyke Ave., is making preparations to build a steel addition to its factory on the west side of Van Dyke Ave., it is stated.

ALBANY, N. Y.—The Quale Co., 19 Chapel St., Albany, has completed plans and is receiving bids for a brick and concrete mill building, 200 × 176 ft., one story, to be erected on North Broadway.

✚BUFFALO, N. Y.—The Pratt & Lambert Co. has let a contract for a 4-story brick addition to its varnish works, Tonawanda St. and the New York Central R. R. to JAMES N. BYERS, 461 Linwood Ave., Buffalo.

TONAWANDA, N. Y.—The Spaulding Bros. Mfg. Co., of North Rochester, N. H., has purchased 18 acres of land at Gibson and Wheeler Sts. and the New York Central R. R. and will build an extensive plant cov-

ering eleven acres, to cost about $400,000, for the manufacture of wood fiber insulating material.

KINGSTON, N. Y.—The Mohawk Silk Fabric Co. has completed plans and is receiving bids for a 2-story silk mill, 53 × 200 ft., of brick and steel construction.

TROY, N. Y.—The Mahoney Boiler & Radiator Co., recently incorporated, has purchased a factory at Green Island, which it will enlarge and equip.

RICHMOND HILL, N. Y.—The Keimer Williams Stamping Co. is to build a 2-story brick factory, 99 × 154 ft., in Vine St., Richmond Hill, 579 ft. south of Jamaica Ave.

ALBANY, N. Y.—Plans of A. Mendleson for a potash factory at Broadway, Vine St. and Fourth Ave., to replace his plant which was burned recently, have been approved.

YONKERS, N. Y.—Nathan A. Warren, Pres. of the Chamber of Commerce, announces that the Blairsville Enameled Ware Co., of Blairsville, Pa., has bought three acres of land on the Sawmill River Road, here, and will erect a factory, to be managed by a concern known as the Eastern Sanitary Mfg. Co. The building will begin some time this summer.

✚PHILADELPHIA, PA.—Official advices are to the effect that Ballinger & Perrot, Archs. and Engrs., 1211 Arch St., have awarded the contract to TURNER-FORMAN CONCRETE STEEL CO. for a bread baking plant to be erected at 25th, York and Hagert Sts. for the Acme Tea Co. The buildings will consist of bakery, offices and powerhouse, and will have a frontage on 25th St. of 225 ft. and on Hagert St. and York St. of 162 ft. It will be two stories and basement, of brick wall construction, with interior columns, floor and roof of reinforced-concrete fireproof construction. A power plant consisting of boilers, engines, generators, together with a 54-in. × 125 ft. high radial brick chimney, will be erected, also electric and steam hydraulic elevators, with private electric light and heating system. Sixteen ovens will be installed, with provision for ten more, making a total of 26 ovens, with a capacity of 150,000 loaves daily. Work will be commenced at once and completed Oct. 16, 1911. Noted last week.

✚PHILADELPHIA, PA.—The SMITH-HARICAN CO., 1606 Cherry St., has the contract for the 3-story store and factory, 50 × 65 ft., to be built from plans by Sauer & Hahn at 1308-10-12 Vine St., for Clarence Marks, at a cost of $13,000.

The Class & Nachod Brewing Co., 1729 Mervine St., is preparing for the erection of an extensive brewing plant at 1801 to 1821 North Tenth St. The site, which was bought some time ago, measures 200 × 188 ft., extending to the P. & R. Ry. Soon after it is cleared, it is expected, work on the new buildings will be begun.

ELLWOOD CITY, PA.—Another adddition will be built to the plant of the Ellwood City Iron & Wire Co.

TRAFFORD, PA.—According to reports, the Van Ormer-Lose Wrench Co. has purchased an acre of ground from the Westinghouse interests adjoining the Linde Air Products Co., in Trafford, and will erect at once a steel and concrete fireproof building, 100 × 25 ft.

BASIC CITY, VA.—The Penn Foundry & Mfg. Co. has been incorporated with $120,000 capital stock, with the following officers: A. F. Holliday, of Pittsburg, Pa., Pres.; J. A. Patterson, Waynesboro, Va., Vice-Pres.; and S. C. Daily, of Pittsburg. A foundry is to be established.

ROANOKE, VA.—The Griggs Packing Co. will build a 50 × 150-ft. structure for meat packing, cold storage and ice manufacturing.

WHEELING, W. VA.—It is reported that the Johnson-Morse Can Co. will erect a 3-story building containing 84,000 sq. ft. of floor space and will install machinery for manufacturing lithographed lard pails, oil cans, etc.

GREENVILLE, S. C.—The Katrim Mfg. Co., of Greenville, has been incorporated with a capital stock of $50,000 for the purpose of manufacturing cotton goods and developing water powers. A mill and power plant will be erected. The incorporators of the company are: William G. Goldsmith, F. Hammond, H. Briggs, J. A. Geer and B. E. Geer.

The Clayton Linen Mills has been organized with a capital of $200,000, with Raven L. McDavid as Pres. A building will be erected, and from 5,000 to 7,000 spindles will be installed for manufacturing towels, etc.

MOULTRIE, GA.—The Moultrie Oil & Fertilizer Co. has been incorporated with $75,000 capital to build a cotton gin, fertilizer factory and cottonseed-oil mill.

✚COLUMBUS, GA.—An addition, 142 × 192 ft., is planned to be erected to the plant of the Fletcher Guano Co., which will double the present capacity. The contract has been awarded to C. T. GIFFORD, of Girard, Ga. The cost, including machinery, will be about $20,000, it is reported.

TAYLORVILLE, FLA.—We are officially advised that bids will be received at once for the construction of three factories by the Edge-Dowling Lumber Co. E. E. Edge and J. Ray Arnold are officers. Noted May 18.

MADISONVILLE, LA.—A company, headed by E. J. Frederick, is being organized for the purpose of establishing a berry cannery, it is stated.

CHILLICOTHE, OHIO.—The Long Mfg. Co. is being incorporated by Edward Long, and a plant to manufacture furniture is contemplated.

✚CANTON, OHIO.—The Cleveland Axle Mfg. Co. plans to erect a foundry south of its present shipping room. The building will be 60 × 168 ft., of brick with steel trusses and tile roof. It will cost approximately $10,000 and the contract for its erection has been awarded to GONDER BROS.

DECATUR, IND.—We are officially advised that the Ward Fence Co. does not contemplate additions to its factory here. Noted on May 25.

DETROIT, MICH.—We are officially advised that bids will be received until July 1 by Donaldson & Meier, Archs., Penobscot Bldg., Detroit, for a brick and steel plant, 300 × 62 ft., four stories, for Schwanbeck Bros., show case manufacturers. Estimated cost of building, $250,000; of equipment, $50,000. L. H. Schwanbeck is Secy.

Albert Kahn and E. Wilby, 800 Trussed Concrete Bldg., have been commissioned by the Packard Motor Car Co., S. D. Waldon, Secy., East Grand Boulevard and Belt Line R. R., to prepare plans for the following new additions to its factory: One-story, 60 × 120 ft., two stories, 50 × 129 ft., one story, 320 × 60 ft., and one story, 180 × 80 ft., buildings to be of reinforced-concrete construction. Cost, $75,000.

DETROIT, MICH.—Albert Kahn and E. Wilby, 800 Trussed Concrete Bldg., have been commissioned by the Continental Motor Co., of Detroit, to prepare plans for a new manufacturing plant and office building.

✚G. A. Mueller, 804 Breitmeyer Bldg., Detroit, has awarded the general contract for the new 4-story and basement brewery and storage building, 108 × 50 ft., for the Pilsener Brewing Co., of Cleveland, Ohio, to C. A. ANDREWS, of Cleveland. Cost, $50,000.

OWOSSO, MICH.—The plant of the Standard Pure Food Co., H. P. Davies, Pres., Owosso, Mich., which was damaged by fire entailing a loss of over $45,000, will be rebuilt.

BELOIT, WIS.—Simmons & Fellows, Archs., Chicago, Ill., are preparing plans for a $60,000 administration building for the Berlin Machine Works, Beloit. It will be 60 × 120 ft., three stories high, of brick and steel construction with front of old rose colonial facing brick, with Bedford limestone embellishments, marble stairs and vestibules and tile floors.

✚MADISON, WIS.—Claude & Starck, Archs., Madison, and the Gisholt Machine Co., have awarded the general contracts for the erection of an administration building and an addition to the machine shop to L. B. GILBERT, Madison, at $155,000. The office will be two stories high, 48 × 116 ft., of fireproof construction; cost, $51,000. The addition to the shop will be 204 × 325 ft., one story high, of fireproof construction with saw-tooth roof and cost $104,000.

✚OSHKOSH, WIS.—The Oshkosh Brewing Co., William J. Glatz, Pres., has awarded contracts for the construction of a new brewing plant to cost $50,000, as follows: General contract, C. R. MEYER & SON, Oshkosh; structural iron and steel, WIERLING STEEL WORKS, Chicago; part-equipment, ARMSTRONG CORK CO., Chicago. The plant will be of reinforced-concrete construction, steel trussed floors and roof, five stories high, at Doty St., from 16th to 17th Sts. Plans by W. J. Glats.

✚SUPERIOR, WIS.—The C. Reiss Coal Co., Sheboygan, Wis., has awarded the contract for the construction of a $10,000 powerhouse at St. Louis Bay coal dock here to EMIL SEDLOCHECK, of Superior.

✚The Northern Brewing Co. has awarded the contract for the construction of a new bottling plant, 42 × 80 ft., two stories high, at Eighth St. and Catlin Ave., to A. DAUPLAISE, of Superior. Cost, $10,000.

ST. LOUIS, MO.—Ground has been purchased by the Christopher & Simpson Architectural Iron & Foundry Co. for an enlargement of its plant at Eighth St. and Park Ave. A new "bridge shop" and other buildings are to be erected at a cost of about $50,000. The present plant occupies the frontage between Eighth and Ninth Sts. on the norts side of Park and the addition will extend along Eighth from Park to Rutger Sts.

WACO, TEX.—It is proposed to organize the Waco Cotton Mills Co., of Waco, with a capital stock of $200,000, for the purpose of building a mill to manufacture twine, and the textile machinery will probably include 5,000 spindles. A plant of this extent will give employment to about 150 people. The Business Men's Club is interested.

BROWNSVILLE, TEX.—The city will erect a slaughter house, bonds having been voted for the purpose.

ARANSAS PASS, TEX.—The Commercial Club of this place is promoting the establishment of a canning factory here. W. H. Emery and others were appointed a committee to have charge of the matter.

BERCLAIR, TEX.—W. D. Ellis and associates will erect a broom factory here.

EL PASO, TEX.—The Darbyshire-Harris Iron & Machine Co. will make additions and improvements to its plant here.

✚MESA, ARIZ.—The contract to install a 4-ton ice plant in the Gem City Market has been awarded to the UNITED IRON WORKS, of Los Angeles, Cal.

BAY VIEW, WASH.—Frank Faribault, of Spokane, has bought a lot on Main St., Bayview, and will build a candy and ice cream factory, it is stated.

DORRIS, CAL.—The Dorris Box Factory Co. is making preparations for erecting a box factory here.

SAN FRANCISCO, CAL.—The Federal Mfg. Co. has been incorporated here to make machines of all kinds and to manufacture and sell labels and wrappers. The capital stock is $250,000 and the incorporators include: I. Zellerbach, Sigmund Schwabacher, and M. R. Higgins, all of San Francisco, and George T. Page and F. D. Madison, of San Rafael.

✚LOS ANGELES, CAL.—C. J. KUBACH CO., Pacific Electric Bldg., has received the contract to erect two 2-story brick buildings, 160 × 104 ft. and 39 × 72 ft. for the Anheuser-Bush Brewing Association on North Main St. Cost, $50,000.

LOS ANGELES, CAL.—A company has been organized here to manufacture glass insulators, prism sidewalk lights, cut glass, electric light shades and incandescent globes. A factory will be erected to employ 150 men. Following are the officers: Julius Kauffman, Pres.; E. H. Fosdick, Vice-Pres.; John Morris, Treas.; Stanley S. Stonaker, Secy., and Robert P. Frisk, Gen. Mgr.

✚REDONDO, CAL.—The Redondo Ice & Cold Storage Co. has awarded a contract to the UNITED IRON WORKS, of Los Angeles, for the construction of an ice plant to have a capacity of 6 tons per day, and storage capacity of 15,000 cu. ft. Cost, $15,000.

✚SANTA ANA, CAL.—The Southern Pacific Sugar Co. has awarded the contract to the LAROWE-VALLEZ CO., Ford Bldg., Detroit, Mich., for the construction of a beet pulp drying plant on South Main St. It will be 100 × 200 ft. of reinforced concrete. Cost, $100,000.

KINGSTON, ONT.—The Kingston Locomotive Works, it is reported, has been sold to an English syndicate represented by A. Emilus Jarvis & Co., of Toronto. The company will be reorganized, the capital increased and the works doubled in capacity.

WELLAND, ONT.—The Imperial Mfg. Co., of Warren, Pa., has purchased a site and will erect a 2-story building, 60 × 82 ft., for the manufacture of saddlery hardware, etc.

TORONTO, ONT.—An extensive addition is planned to the plant of the Massey-Harris Co., to include the construction of a foundry, warehouse, etc. Thomas Findley is Asst. Gen. Mgr.

PORT MANN, B. C.—According to reports, the Pittsburg Plate Glass Co., Frick Bldg., Pittsburg, Pa., will establish a plant at Port Mann.

The American Car & Foundry Co., 307 Fifth Ave., Pittsburg, Pa., will erect a plant at Port Mann. About 2,000 men will be given employment, it is stated.

MISCELLANEOUS CONTRACTS.

*(*Denotes that this work is advertised in Engineering News.)*

U. S. RECLAMATION SERVICE.—All news concerning canal and irrigation projects, etc., will be found under Water Supply-Irrigation.

WAGON SHED.—Portland, Me.—Bids will be received until 11 a. m., June 9, by Capt. G. O. Hubbard, Const. Q. M., U. S. A., 655 Congress St., Portland, for the construction of a wagon shed at Fort McKinley, Me.

*LEDGE EXCAVATION, DREDGING.—Portland, Me.—Bids will be received until noon, June 26, by Lt.-Col. W. E. Craighill, Corps. Engrs., U. S. A., Portland, for ledge excavation and dredging in Rockport Harbor, Me.

*ROCK EXCAVATION.—Boston, Mass.—Bids will be received until noon, June 26, by Col. Frederic V. Abbot, Corps Engrs., U. S. A., Boston, for rock excavation in Boston Harbor.

ROCK EXCAVATION.—Boston, Mass.—Bids will be received until noon, June 28, by Col. Frederic V. Abbot, Corps Engrs., U. S. A., Boston, for rock excavation in Gloucester Harbor, Mass.

FERRYBOAT.—Boston, Mass.—New bids, it is reported, will be received by Louis K. Rourke, Comr. Pub. Wks., for the construction of a ferryboat.

FIELD HOUSE.—New York, N. Y.—Bids will be received by the Park Board, Dept. of Parks, until 3 p. m. June 8, for labor and material required for furnishing and erecting a field house in the 101st St. playground, situated on the south side of East 101st St., between Second and Third Aves.

PLAYGROUND.—New York, N. Y.—Bids will be received by the Park Board, Dept. of Parks, until 3 p. m., June 8, for constructing a playground at the eastern end of St. Gabriel's Park, Boro. Manhattan.

ELEVATORS.—New York, N. Y.—Bids will be received by James Knox Taylor, Superv. Arch., Treasury Dept., Washington, D. C., until 3 p. m., June 12, for the installation, complete, of four new electric passenger elevators in the United States courthuose and post-office at New York.

DREDGING, ETC.—New York, N. Y.—Bids will be received until 10 a. m., June 9, by I. W. Littell, Ch. Q. M., U. S. A., Governor's Island, New York, for dredging, construction of a ferry slip, ferry bridge, steel gallows frame and bridge handling machinery.

PIERS.—New York, N. Y.—Plans are now being prepared in the Public Works Division of the Brooklyn Navy Yard for the construction of two 500-ft. concrete and timber piers, at a cost of $50,000 each. The contracts for construction will be advertised soon and work will be begun at once. The piers will be built into the navy yard basin from the Flushing Ave. side. The construction of these piers is one of the first steps in the direction of carrying out the $14,000,000 navy yard improvement plan recently submitted to the Navy Department by W. G. Groesbeck, Naval Constructor, and F. R. Harris, C. E., of the local yard.

PLAYGROUND.—New York, N. Y.—Bids were opened on May 18 by the Park Board, Dept. of Parks, for constructing Bushwick playground, bounded by Putnam Ave. and Woodbine St., extension between Knickerbocker Ave. and Irving Ave., Boro. Brooklyn: William J. Garcey, 54 Broadway, Long Island City (L. I.), N. Y., $18,369; Kelly & Kelley, Inc., $21,835; George F. Driscoll, $19,978; O'Grady Bros., $21,228; Norton & Gorman, $23,839; Cosgrove Daly Co., $19,498.

*DREDGING.—New York, N. Y.—Bids will be received until noon, June 10, by Col. W. M. Black, Corps Engrs., U. S. A., 710 Army Bldg., New York, for dredging in Wappinger Creek, N. Y., and in harbors at Tarrytown and Peekskill, N. Y.

GRANITE STONE.—New York, N. Y.—Bids were received as follows on May 19 by Calvin Tomkins, Comr. of Docks, for Contract No. 1273, for furnishing all the labor and materials required for granite stone for bulkhead or river wall: Class 1, Brookville Granite Co., 90 cts. per cu. ft.; Class 2, Ryan Parker Co., 98 cts.

STEEL FREIGHT SHED.—New York, N. Y.—Bids were received as follows on May 25 by Calvin Tomkins, Comr. of Docks, for Contract No. 1279, for furnishing all the labor and materials required for building a new steel freight shed with appurtenances on the pier at the foot of 33d St., Boro. Brooklyn. The contract has been awarded to SNARE & TRIEST, 143 Liberty St., New York, at $220,980.

REPAIRS TO STEAMER.—New York, N. Y.—Bids will be received by the Department of Public Charities until 2:30 p. m., June 9, for furnishing all the labor and materials required for making necessary repairs to the steamer "The Lowell." Michael J. Drummond is Comr.

✚FIRE HOSE.—New York, N. Y.—Bids were received on May 26 by the Fire Department for furnishing and delivering 3,500 ft. of 3½-in. rubber fire hose for fire boats, Boro. Manhattan, and 1,500 ft. of 3½-in. rubber fire hose for fire boats, Boro. Brooklyn. The contract has been awarded to the only bidder, the B. F. GOODRICH CO., New York, at $2.04 per ft. or $10,200.

DREDGING.—New York, N. Y.—Bids were received on May 18 by Col. S. W. Roessler, Corps Engrs., U. S. A., for dredging. The following are the lowest bidders: Flushing Bay, 54,546 cu. yds., R. G. Packard, 130 Pearl St., New York, 22 cts. per cu. yd.; Hempstead Harbor, 100,000 cu. yds., P. Sanford Ross, Inc., Jersey City, N. J., 21 cts.; Huntington Harbor, Maritime Dredging Co., 75 Broad St., New York, 28⅔ cts.

✚FIRE ALARM SYSTEM.—Syracuse, N. Y.—Bids were received on May 26 by the Board of Contract and Supply for the new central office fire alarm system. The contract has been awarded to the GAMEWELL FIRE ALARM TELEGRAPH CO., 19 Barclay St., New York, at $23,875.

IRON AND STEEL.—New York, N. Y.—Bids will be received by W. H. Edwards, Com. St. Cleaning, until noon, June 12, for furnishing and delivering iron and steel.

*COAL.—New York, N. Y.—Bids will be received until noon, June 20, by Col. S. W. Roessler, Corps. Engrs., U. S. A., for furnishing and trimming into U. S. dredges during the twelve months, beginning July 1, 1911, about 24,000 tons of bituminous coal.

GRADING.—Jersey City, N. J.—Bids will be received until June 6 by the Shade Tree Commission for grading about 70,000 cu. yds. in Montgomery Park. A. T. Hastings is Secy.

SIGNAL SYSTEM.—Passaic, N. J.—No bids were opened on May 19 by the city for furnishing and installing a police signal system, fire-alarm equipment and municipal telephone exchange. Specifications will be revised and new bids asked. Thomas R. Watson is City Clk.

JETTIES.—Fort Hancock, N. J.—Bids for 1,300 ft. of wood jetties at the Sandy Hook Proving Grounds, N. J., have been received by the Commanding Officer as follows: BENJ. A. VAN BRUNT, Seabright, N. J., $7.90 per ft. (awarded contract); The McManus Contracting Co., 414 Wood St., Philadelphia, Pa., $9.13; Jesse A. Howland, Seabright, $9.40; John Anderson, 90 West St., New York, $9.95; McHarg-Barton Co., 165 Broadway, New York, $11.90 per ft.

REPAIRS TO ELEVATORS.—Philadelphia, Pa.—Bids were opened on May 15, as follows, by the Department of Public Safety, for repairs to the City Hall elevators: Otis Elevator Co., $32,762; William H. Harrison's Sons, 1708 Ludlow St., Philadelphia, $31,800.

✚ELIMINATION OF GRADE CROSSINGS.—Philadelphia, Pa.—Bids were received on May 10, by W. Hunter, Ch. Engr., Philadelphia & Reading Ry. Co., Reading Terminal, Philadelphia, for the following work appurtenant to the aboliton of grade crossings on the Richmond Branch Elevated: Contract No. 24, masonry walls and abutments between Trenton Ave. and Richmond St.; Contract No. 25, bridges ready for ballast over Aramingo Ave., Belgrade and Thompson Sts. The contract for the steel work has been awarded to the AMERICAN BRIDGE CO., 30 Church St., New York; substructure to the JAMES McGRAW CO., of Philadelphia, Pa.

DREDGING.—Philadelphia, Pa.—Bids will be received until noon, June 24, by Maj. Herbert Deakyne, Corps Engrs., U. S. A., Philadelphia, for dredging in Delaware River, on Tinicum and New Castle Ranges.

✚IMPROVEMENTS TO PIER.—Philadelphia, Pa.—The contract has been awarded by the city to FRED A. HAVENS for improvements to the recreation pier on Delaware Ave., between Chestnut and Market Sts.

STEEL TOWER.—Etna (Pittsburg post-office), Pa.—Bids will be received until 5 p. m., June 5, by J. C. Armstrong, Boro. Clk., for furnishing and erecting a 70-ft. steel bell tower, capable of carrying bell and fixtures to the amount of 2,500 lbs., the tower to be on a concrete base, and bid to include removing bell from old to new tower. Bidders are required to furnish their own plans and specifications.

✚ROAD OIL.—Pittsburg, Pa.—Bids were received on May 19 by the County Commissioners at the office of R. J. Cunningham, County Controller, Pittsburg, for furnishing about 100,000 gallons of light asphalt road oil and 100,000 gallons of heavy asphalt road oil. Contracts have been awarded as follows: To the STANDARD OIL CO., for heavy asphalt oil; to the INDIAN REFINING CO., for light asphalt oil.

DREDGING.—Wilmington, Del.—Bids were received on May 11 by Maj. R. R. Raymond, Corps Engrs., U. S. A., for dredging in Mur-

derkill River; Rickards Dredging Co., Philadelphia, Pa., 9.8 cts. per cu. yd.; River & Harbor Improvement Co., Philadelphia, 13.4 cts.

DREDGING.—Baltimore, Md.—Bids were received on May 15 by Col. Thomas L. Casey, Corps Engrs., U. S. A., Baltimore, for dredging in Patafaco River, Md.: American Dredging, Philadelphia, Pa., 10 3/10 cts.; Morris & Cummings Dredging Co., New York, 10 6/10 cts.; Coastwise Dredging Co., Norfolk, Va., 10 7/10 cts.; Sanford & Brooks, Baltimore, 10¾ cts.; Maryland Dredging & Contracting Co., Baltimore, 9½ cts.

✚STEAMSHIP.—Baltimore, Md.—The contract for the construction of a steamship for the Spanish-American Iron Co. has been awarded to the MARYLAND STEEL CO., of Sparrows Point, Md. The vessel will be 125 ft. over all, 120 ft. on the water line and will have a 25-ft. beam and a 15-ft. hold. Her equipment will consist of triple expansion engines, the three cylinders of which will be 12½, 20½ and 34 ins. in diameter. Their combined stroke will be 24 ins. The boiler will be of Scotch design, 13 ft. in diameter and 11 ft. long, with a maximum steam pressure of 180 lbs. The windlass and steering gear will be operated by steam.

ARMOR.—Washington, D. C.—The contract for furnishing armor for the U. S. battleship New York has been awarded to the CARNEGIE STEEL CO., Pittsburg, Pa., for 2,323 tons; to the MIDVALE STEEL CO., Nicetown, Philadelphia, Pa., for 2,202 tons; and to the BETHLEHEM STEEL CO., South Bethlehem, Pa., for 2,202 tons.

COAL CONVEYING APPARATUS.—Washington, D. C.—Bids were received as follows on May 18 by the Department of the Interior for the installation of a coal conveying apparatus at the Freedman's Hospital and Howard University, Washington: Charles A. Barker, Washington, $15,445; Boyle-Robertson Construction Co., Washington, $18,205; John W. Danforth & Co., Washington, $14,542; J. M. Dodge Co., Philadelphia, $21,070; Stoddard Repair Co., New York, $15,950; Guaranty Construction Co., New York, $21,974; R. H. Bowmont Co., Philadelphia, $16,084.

PIERS.—Norfolk, Va.—Bids will be received, it is reported, until June 15 by the Old Dominion Steamship Co. for the construction of two piers, each 1,100 ft. long and 225 ft. wide; two piers each 800 × 225 ft., and one smaller pier. Estimated cost, $1,500,000.

✚DREDGING.—Alexandria, Va.—The contract has been awarded to the SANFORD & BROOKS CO., Baltimore, Md., for dredging in the Potomac River at Alexandria, at 15.6 cts. per cu. yd. Bids were opened on May 15 by Lt. Col. Mason M. Patrick, Corps Engrs., U. S. A., Norfolk.

SEAWALL.—Norfolk, Va.—Bids will be received by the Bureau of Yards and Docks, Navy Dept., Washington, until 11 a. m., June 17, for the construction of a seawall at the navy yard, Norfolk. Plans and specifications can be obtained on application to the Bureau or to the Commandant of the Navy Yard. R. C. Hollyday is Ch. of Bureau.

DRY DOCK PUMPING EQUIPMENT.—Norfolk, Va.—Bids were received as follows on May 27 by the Bureau of Yards and Docks, Navy Dept., Washington, D. C., for furnishing a dry dock pumping equipment at the navy yard, Norfolk: Westinghouse Electric & Mfg. Co., Norfolk, Va., Item 2, $20,892, (3) $16,982; General Electric Co., Schenectady, N. Y., $16,076; John W. Danforth Co., Washington, D. C., $24,000; Henry R. Worthington, 115 Broadway, New York, $27,560.

DREDGING.—Fort Caswell (Southport post-office), N. C.—No bids were received on May 15 by R. O. Edwards, Const. Q. M., U. S. A., for dredging the channel to the launch wharf at Fort Caswell.

WHARF BUILDING.—Charleston, S. C.—Bids will be received until 2 p. m., June 13, and 2 p. m., July 15, respectively, by the U. S. Immigration Service, Charleston, for the construction of a wharf and station building at Charleston.

*DREDGING.—Jacksonville, Fla.—Bids will be received until noon, June 26, by Capt. George R. Spalding, Corps Engrs., U. S. A., for dredging in the channel from Clearwater Harbor to Tampa Bay, Fla.

*DREDGING, ETC.—Jacksonville, Fla.—Bids were received as follows on May 25 by Capt. George R. Spalding, Corps Engrs., U. S. A., Jacksonville, for dredging and constructing shore revetment in St. Johns River, Fla.: Roderick G. Ross, Jacksonville, $70,570; P. Sanford Ross, Inc., Jersey City, N. J., $66,390.

✚EXCAVATION.—New Roads, La.—The contract has been awarded to J. P. KENEDY by the Portage Drainage District, New Roads, for excavating about 45,000 cu. yds. of canal in Pointe Coupee Parish, at 14⅞ cts.

STONE.—Memphis, Tenn.—Bids will be received until noon, June 12, by the Mississippi River Commission, First and Second Districts, U. S. Engineer Office, Memphis, for furnishing 10,000 tons of riprap stone. Capt. Clarke S. Smith, Corps Engrs., U. S. A., may be addressed.

ROCK EXCAVATION, ETC.—Nashville, TENN.—Bids were received on May 22 by Maj. William W. Harts, Corps Engrs., U. S. A., Nashville, Tenn., for rock excavation at Tuscumbia Bar, near Sheffield, Ala. The only bid received was that of N. C. McGinnis, Bement, Ill., as follows: 75,000 cu. yds. rock excavation, $3.35; 35,000 cu. yds. earth excavation, 50 cts.

DITCH WORK.—Louisville, Ky.—Bids for clearing right-of-way, erecting necessary structures and excavating Pond Creek Ditch from Station 370 to Station 510, or so far as the funds available will complete the work, will be received at the office of the Clerk of the Fiscal Court of Jefferson County, Louisville, until 10 a. m., June 6. Plans and specifications are on file in the office of S. F. Crecelius, Superv. Engr., 403 Equitable Bldg., Louisville.

DREDGING.—Canton, Ohio.—Bids will be received by R. H. Harbert, Dir. Pub. Ser., until noon, June 7, for the excavation (by dredging or otherwise) the main channel of the east branch of the Nimishillen Creek, from Belden Ave. bridge to Klorer Ave. bridge and the proposed lagoon in the waterworks park south of Lake St. extension. The approximate quantities are as follows: Nimishillen Creek channel, 6,000 cu. yds.; lagoon in park, 3,500 cu. yds.

WAGON SHEDS.—Columbus, Ohio.—Bids were opened on May 23 by the Director of Public Service for the construction of wagon sheds for the city departments as follows: A. W. Schneider, Columbus, $21,943; D. W. McGrath, Columbus, $26,098; William Kolb, Columbus, $21,897; P. Messner, Columbus, $23,730; P. Shanahan, Columbus, $22,888; Francis Bros. Co., Columbus, $25,770; Adams Pitts, Columbus, $22,926.

RETAINING WALL.—Dayton, Ohio.—Bids will be received until June 5 by J. C. Ely, Dir. Pub. Serv., for constructing a concrete retaining wall along Mad River Levee, North Dayton.

DAM.—Newark, Ohio.—Bids will be received by W. C. Christian, Dir. Pub. Ser., until June 2 for constructing a concrete dam, requiring 280 cu. yds. of concrete, 17.2 tons of steel sheet piling and 1,470 lin. ft. of timber piling. C. H. Wells is City Engr.

*LOCK AND DAM.—Cincinnati, Ohio.—Bids were received as follows on May 26, by Maj. John C. Oakes, Corps. Engr., U. S. A., for constructing Lock and Dam No. 14, Kentucky River, at Heidelburg, Ky.: Skene-Richmond Contract Co., Shelbianna, Ky., $387,769; Gahren, Dodge & Maltby Co., New York, $311,912; Dravo Contracting Co., Pittsburg, Pa., $371,586; George C. Hodgson, Dayton, Ohio, $387,757; Mason & Hanger Co., Richmond, Ky., $364,375; Smith-Towles & Co., Thirteen, Ky., $355,378.

DITCH.—Portland, Ind.—The construction of the Fred Hunwork ditch in Wayne County has been ordered. James F. Graves is Supt. of Construction, Portland.

DRAINAGE.—Champaign, Ill.—Bids will be received, it is reported, until June 3 by the Commissioners of Two-Mile Slough Drainage District at the office of J. P. Gulick, Atty., Champaign, for furnishing, hauling, trenching, laying and back-filling tile drain in Branch No. 27, or Page Run, of the district, consisting of 11,500 ft. of 20-in. and 5,100 ft. of 18-in. tile.

DRAINAGE.—Urbana, Ill.—Bids will be received until June 5 by the Commissioners of Sub-District 18, Kankakee Drainage District, at the office of Webber & Roth, First National Bank Bldg., Urbana, for furnishing 8,104 ft. of 8, 10, 12 and 16-in. tile; average depth, 3½ ft.

DRAINAGE.—Urbana, Ill.—Bids will be received until June 12 by the Commissioners of "Bailey" Branch Drainage District at the office of Webber & Roth, First National Bank Bldg., Urbana, for the construction of drainage work in St. Joseph and Ogden Townships, the work to include 85 rods open ditch, 2,016 ft. of 16-in., 1,050 ft. of 18-in. and 6,500 ft. of 27-in. tile.

ROCK REMOVAL.—De Pere, Wis.—Bids will be received by the De Pere Electric Light & Power Co. until noon, June 1, for the removal of about 3,000 yds. of rock from the tail race of the company.

DITCHES.—Osceola, Wis.—No bids were received on May 20 by C. W. Staples, Secy. Cushing Drainage Comn., for the construction of Ditches Nos. 2 and 3, 3⅝ miles long, and comprising 33,397 cu. yds. of excavation, three concrete arch culverts and 7½ miles of 5-wire fence. New bids are asked for the work.

*DREDGING.—Milwaukee, Wis.—Bids were received as follows on May 24 by Lt.-Col. George A. Zinn, Corps Engrs., U. S. A., Milwaukee, for dredging 380,000 cu. yds. for the improvement of Oconto Harbor, Wis.: (a) Section A, 227,000 cu. yds., scow measurement; (b) Section B, 153,000 cu. yds., scow measurement, and 122,400 cu. yds., place measurement; (c) totals for Section A, scow measurement, and Section A, scow measurement, and Section B, place measurement: Great Lakes Dredge & Dock Co., Chicago, Ill., (a) 23.9 cts. per cu. yd., (b) 13.9 cts. and 19 cts., respectively, (c) $52,820 and $54,800; Duluth-Superior Dredging Co., Duluth, Minn., (a) 20.25 cts., (b) 20.25 cts. and 25 cts., (c) $76,950 and $76,567; Fitz Simons & Connell Dredge & Dock Co., Chicago, Ill., (a) 14.5 cts., (b) 13.5 cts. and 16 cts., (c) $33,570 and $54,947; Northern Dredge & Dock Co., Duluth, (a) 16 cts., (b) 16 cts., (c) $60,800; ADOLPH F. BUES, Milwaukee, (a) 11⅝ cts., (b) 11⅝ cts. and 19 cts., (c) $43,225 (awarded contract), and $49,079; Greiling Bros. Co., Green Bay, Wis., (a) 11.7 cts., (b) 11.7 cts., (c) $44,460; Zenith Dredge Co., Duluth, (a) 15.25 cts., (b) 15.25 cts., (c) $57,950.

DRAINAGE DITCH.—Webster City, Iowa.—The Board of Supervisors of Hamilton County has awarded drainage ditch contracts as follows: Haviland ditch, to R. S. LEE, at $9,697; Philip ditch, to HENRY SWIFT, at $17,200; Hill ditch, to JENS JENSEN, at $20,000; Pray-Glaman ditch, Section 1, to NORTHERN CONSTRUCTION CO., at $20,400; Section 2, to SARGEJT TILE DRAIN CO., at $15,963; Section 3, to M. S. BURGETT, at $5,388; Section 4, to M. S. BURGETT, at $6,762, and Section 5, to M. S. BURGETT, at $30,000.

✚DRAINAGE CANAL, ETC.—Carrollton, Mo.—Bids were received on May 15 by the county for the construction of the main canal and laterals of Drainage District No. 3, about 21 miles long, requiring 1,170,000 cu. yds. and 286,000 cu. yds., respectively, of excavation. Contracts have been awarded as follows: Main canal, to the R. B. GORDON CO., of Celina, Ohio, at 7.4 cts. per cu. yd.; laterals, twelve miles, to M. J. HANANALT, of Monticello, Ind., at 8.73 cts. per cu. yd. Brooks & Jacoby are Engrs., 515 Shukert Bldg., Kansas City, Mo.

REVETMENT.—Kansas City, Mo.—Bids were received as follows on May 22 by Maj. Edward H. Schulz, Corps Engrs., U. S. A., Kansas City, for standard revetment, 11,000 ft. (Missouri River, below St. Charles, Mo.): De Witt & Shebe, $7.74 per ft., total, $85,140; Rust, Swift & Co., $8.19, $90,090; William Larkin, Little Rock, Ark., $9.80, $107,800; A. W. Furney, $10.48, $115,280.

STEEL PIPE.—Colorado Springs, Colo.—The Midwest Oil Co. has awarded a contract to the NATIONAL TUBE CO., Pittsburg, Pa., for 40 miles of steel pipe to connect Casper, Wyo., with the oil fields of the Reed Investment Co., Colorado Springs.

✚EXCAVATION, ETC.—Boise, Idaho.—The contract has been awarded to MANEY BROS. & CO., of Nyssa, Ore., for the construction of a portion of the branch railroad to the Arrow Rock dam site, Boise irrigation project, Idaho. The work involves the excavation of about 65,000 cu. yds. of earth and 4,500 cu. yds. of rock. The contract price is $27,910.

ROADBED.—Boise, Idaho.—Bids will be received by the U. S. Reclamation Service, Shaw Bldg., Boise, until 2 p. m., June 10, for constructing roadbed for a branch railway from Barberton to the site of the Arrowrock Dam, between stations 491 + 57 and 874 + 00. The work involves the excavation of about 100,000 cu. yds. of earth and about 35,000 cu. yds. of rock. Further particulars may be obtained at the office of the U. S. Reclamation Service, Boise. F. E. Weymouth, Superv. Engr.

HARBOR IMPROVEMENT. — Everett, Wash.—It is reported that bids will be asked soon for the improvement of the harbor here.

IRON CULVERTS.—Portland, Ore.—Bids will be received at the office of the City Auditor until 10 a. m., June 2, for furnishing the Park Department galvanized iron culverts according to specifications filed in the office of the Auditor, copies of which may be obtained at the office of the Park Board, City Hall.

REVETMENT AND DIKE.—Salem, Ore.—Government engineers have reported favorably for the construction of a revetment and dike, to cost $25,000, on the left bank of the Willamette River opposite Salem.

✚ELEVATORS.—Los Angeles, Cal.—Parkinson & Bergstrom, Archs., Security Bldg., Los Angeles, has awarded a contract to the LLEWELLYN IRON WORKS, Main and Redondo Sts., for installing eight passenger one freight and one sidewalk elevator, including tunnels to the Alexandria Hotel and connections to plant in hotel, in the 11-story Class A Chester Building at Fifth and Spring Sts., at $50,000, and a bonus of $6,000 at the end of one year if plant is satisfactory. The elevators will be of the plunger type.

LIGHT STATION.—San Pedro, Cal.—Bids will be asked soon for the construction of a concrete and boiler plate light station to be constructed at the end of the government breakwater. The sum of $36,000 is available for the work. W. A. Moffett is Commander of the Lighthouse Board. The equipment will consist of a first class flashing light and compressed air siren.

✚SMOKESTACK.—Stockton, Cal.—The contract has been awarded by the city to BRAUN, WILLIAMS & RUSSELL, INC., 503 Market St., San Francisco, Cal., for erecting a steel smokestack 188 × 8 ft.

BULKHEADS, WHARVES.—Stockton, Cal.—The City Council has appropriated a large sum from the permanent wharf fund for the construction of permanent bulkheads and wharves along McLeod's Lake, and has also passed a resolution calling for a bond issue, the money to be used to make other improvements on the lake. It is proposed to dredge this body of water and construct wharves on at least two sides.

WALL AND BULKHEAD.—Longbeach, Cal.—The following bids have been received by the Board of Public Works for constructing the seaside wall and bulkhead: F. W. Young, Los Angeles, $96,000; J. C. Beer, Longbeach, $108,000. The sum of $107,000 was appropriated for the work by the residents.

CANAL.—Cornwall, Ont.—Bids will be received until June 9 by L. K. Jones, Secy., Dept. Railways and Canals, Ottawa, Ont., for improving lower extreme to Lock No. 24. Specifications, etc., on application to Chief Engineer Department, Ottawa, or Resident Engineer, St. Lawrence Canals, Cornwall.

IMPROVEMENT OF HA[illegible]—Fort Arthur and Fort William, [illegible] Government, it is reported, has ap[illegible] $1,150,000 for the improvement [illegible] at Fort Arthur and Fort William [illegible] improvements contemplated are [illegible] extension of breakwaters for a distan[illegible] three miles and dredging of McIntyre [illegible] Rivers, one-half mile each to [illegible] Canadian Pacific R. R., the channels [illegible] bottom width of 400 ft.

DOCK.—Windsor, Ont.—[illegible] considering the construction of a [illegible] The government has appropriate[illegible] for the work.

WHARF.—Mulgrave, N. S.—[illegible] will be received until June 5 by R[illegible] Secy. Dept. Pub. Wks., Ott[illegible] for constructing a wharf at M[illegible] E. G. Millidge is Dist. Engr., Anti[illegible]

✚DREDGING—Havana.—In [illegible] erroneous item published on [illegible] effect that M. T. Dady had [illegible] a $7,000,000 dredging contra[illegible] Compania de los Puertos de Cuba [illegible] advises us that the facts [illegible] company has given from $7[illegible] 000,000 worth of dredging to [illegible] TON CONTRACTING CO. in [illegible] ed. This is mostly hydraulic [illegible] is, however, a small amoun[illegible] can be done to greater advanta[illegible] dipper dredge. This work has [illegible] given to Mr. Dady.

U. S. POSSESSIONS.

BOILERS, ETC.—Hawaii.—The Bureau of Yards and Docks, Navy Dept., Washington, D. C., has rejected all bids recently received for boilers, stack, etc., at the power plant for the Naval Station at Pearl Harbor, H. T.

✚AIR COMPRESSOR, ETC.—Hawaii.—The contract for furnishing a 3,000 [illegible] air compressor, etc., at the U. S. Naval Station, Pearl Harbor, H. T., bids opened on April 29, has been awarded to the LAIDLAW-DUNN GORDON CO., 115 Broadway, New York. Noted on May 4.

ELECTRICAL MATERIAL.—Panama.—Bids will be received until June 8 by Capt. F. C. Boggs, Corps Engrs., U. S. A., Gen. Pur. Officer, Isthmian Canal Comn., Washington, D. C., for electrical material, including attings, fixtures, batteries, wire, [illegible], insulating material, etc., for the period ending June 30, 1912, per Circular 652.

MANILA ROPE.—Panama.—Bids were received as follows on May 26 by Capt. F. C. Boggs, Corps, Engrs., U. S. A., Gen. Pur. Officers, Isthmian Canal Comn., Washington, D. C., for a quantity of manila rope: Hibbert-Spencer-Bartlett Co., Chicago, Ill., $3[illegible],789; alternate bid, $53,760; Plymouth Cordage Co., Plymouth, Mass., $39,46[illegible]; Portland Cordage Co., Portland, Ore., $40,[illegible]; Waterbury Co., New York, $39,505; Baker, Sigsbee & Co., Washington, $42,298; Columbian Rope Works, Aurora, N. Y., $40,572; Wall Rope Works, New York, $39,511.

*MITER-GATE MOVING MACHINERY.—Panama.—Bids were received as follows on May 27 by Capt. F. C. Boggs, Corps Engrs., U. S. A., Gen. Purchasing Officer, Isthmian Canal Comn., Washington, D. C., for miter-gate-moving machinery Class 1, two miter gate-moving machines, for Gatun gates Nos. 37 and 38; 90 miter gate-moving machines, for the remaining gates, spare parts; Class 2, one miter forcing machine, for gates Nos. 37 and 38; 45 miter forcing machines for the remaining gates and spare parts; Class 4, one motor for miter forcing machines, gates 37 and 38; 45 motors for the remaining machines; Class 3, two motors for miter gate-moving machines, for gates Nos. 37 and 38; 90 motors for the remaining machines. Christiana Machine Co., Christiana, Pa., (2) $62,520; Exeter Machine Works, Pittston, Pa., (1) $807,258, (2) $65,592; Fawcus Machine Co., Pittsburg, (1) $660,643, (2) $61,720; Meste Machine Co., Pittsburg, (1) $765,248; Power & Mining Machinery Co., Cudahy, Wis., (1) $862,237, (2) $51,515; Richard Mfg. Co., Bloomsburg, Pa., $11,275; Rosedale Foundry & Machine Co., Rosedale, Pa., (1) $702,750, (2) $51,588; Union Machine Co., San Francisco, Cal., (2) $63,488; United Engineering & Foundry Co., Pittsburg, Pa., (1) $674,534, (2) $54,045; Allis-Chalmers Co., Milwaukee, Wis., (1) $741,086, (2) $65,207, (3) $38,320, (4) $12,810; Otis Elevator Co., 17 Battery Pl., New York, (1) $690,755, (2) $49,245; General Electric Co., Schenectady, N. Y., (3) $39,308, (4) $12,683; Wheeling Mould & Foundry Co., Wheeling, W. Va., (1) $652,064, (2) $50,954; Westinghouse Machine Co., Pittsburg, (1) $712,760, (2) $49,953; Westinghouse Electric & Mfg. Co., Washington, (3) $56,028, (4) $15,565.

CONTRACT PRICES.

(*Denotes that this work is advertised in Engineering News.)

✚HOLYOKE, MASS.—Bids have been received for the construction of the dam at Southampton for the Holyoke water-works. The contractors bidding on this were: (A) J. E. Bunting & Co., Flushing, L. I., N. Y.; (B) CONNECTICUT ENGINEERING & CONTRACTING CO., Norwich, Conn. (awarded contract); (C) Lynch Bros., Holyoke; (D) A. O. Bullard, Greenfield, Mass.; (E) P. J. Kennedy, Holyoke; (F) J. H. Ferguson, Dorchester, Mass.; (G) Bruno & Petitti, Boston, Mass.; (H) D. O'Connell & Sons, Holyoke.

DAM AT SOUTHAMPTON, MASS., HOLYOKE WATER-WORKS.

	A	B	C	D	E	F	G	H
1,000 yds. earth excavation	$0.90	$0.50	$1.50	$0.90	$1.00	$1.00	$2.00	$1.25
800 yds. rock excavation	6.00	3.50	2.50	2.50	3.00	3.50	4.00	3.00
200 yds. mass concrete, Class A	9.00	6.00	9.00	9.00	8.00	7.25	10.00	8.50
200 yds. mass concrete, Class B	9.00	5.58	8.50	8.00	8.00	6.50	10.00	10.00
100 yds. mass concrete, Class C	12.00	6.25	9.00	10.09	10.00	7.00	12.00	11.00
6,600 yds. cyclopean masonry	7.70	4.00	7.25	6.25	7.10	4.85	7.75	6.45
7 tons steel reinforcement	80.00	60.00	60.00	.05/lb.	80.00/ton	.04/lb.	100.00/ton	80.00
12 tons hauling iron, etc.	20.00	25.00	40.00	25.00	25.00	4.00/ton	25.00	40.00
Estimated totals	$62,120.00	$33,361.00	$56,650.00	$49,550.00	$55,320.00	$39,868.00	$62,550.00	$52,060.00

STEAM ELECTRIC POWER PLANT.—A large steam-electric power plant for construction work at the Engle Dam Site, Rio Grande Reclamation Project, will be built by the U. S. Reclamation Service. The installation will include two 625 KVA. steam turbine generating units supply electricity at [illegible] volts, 60 cycles. Steam will be obtained from three 250-HP. water tube boilers. Bids for the complete equipment, f. o. b. point of shipment as well as one additional 625 KVA. generator; 250-HP. boiler and appliances, should they be deemed necessary, were received May 15.

The bidders were: (A) General Electric Co., Schenectady, N. Y.; (B) W. E. Anderson, El Paso, Tex.; (C) M. L. Bayard & Co., Philadelphia; (D) Henry R. Worthington, 115 Broadway, New York; (E) Chas. C. Moore & Co., San Francisco. The item prices were as follows:

STEAM-ELECTRIC POWER PLANT, RIO GRANDE RECLAMATION PROJECT.*

	A.	B.	C.	D.	E.
2 turbo-generators 625 KVA., each	$9,100	......	$10,500	......	$9,800
1 turbo-generator 625 KVA, additional	9,100	......	10,500	......	9,800
2 steam-turbine driven exciters, each	1,100	......	1,420	......	1,100
1 switchboard, 6-panel	15,90	......	1,920	......	1,670
1 generator panel, additional	280	......	240	......	300
2 horizontal, surface condensers, turbine driven pumps, each	......	$4,250	......	$5,059	4,699
1 horizontal, surface condenser, turbine driven pump, additional	......	4,250	......	5,059	4,685
2 horizontal, surface condensers, engine driven	......	4,300	3,412	4,778	4,759
1 horizontal, surface condensers, additional	......	4,300	3,400	4,778	4,737
3 water tube boilers, 250 HP., each	......	3,332	4,266	......	3,700
1 water tube boiler, 250 HP., additional	......	3,332	3,600	......	3,855
2 duplex boiler feed pumps, each	......	322	185	422	370
1 feed water heater	......	760	670	400	720
Design and erection of power plant	......	12,940	16,000	......	25,500
Erection of one additional boiler turbo-generator, generator panels and condenser boiler	......	3,590	3,200	......	10,900

†Alternative items. ‡Alternative items.

The price per kilowatt for the complete installation by the only bidder bidding on all items was $56.75. The lowest prices of the several bidders for the complete installation was $37.67 per kilowatt. The unit cost of the apparatus alone was $29.85 per kilowatt.

*LOCK AND DAM.—Wheeling, W. Va.—Bids for constructing Lock and Dam No. 14, Ohio River, at Woodland, W. Va., were received on May 10, by Major F. W. Altstaetter, Corps of Engrs., U. S. A., at Wheeling, as follows: (A) Missouri Valley Bridge & Iron Co., Leavenworth, Kan.; (B) Ohio River Contract Co., Evansville, Ind.; (C) Dravo Contracting Co., Pittsburg, Pa.; (D) Sheridan-Kirk Contract Co., Cincinnati, Ohio; (E) T. A. Gillespie Co., Pittsburg, Pa.

LOCK AND DAM, WHEELING, W. VA.

	A	B	C	D	E
4,120 lin. ft. cofferdam, 16-ft	$25.70	$25.00	$21.00	$20.00	$25.00
1,500 lin. ft. cofferdam, 10-ft	11.00	10.00	10.00	9.25	14.00
201,500 cu. yds. common excavation	.60	.70	.70	.60	.75
1,000 cu. yds. rock excavation	2.50	3.00	3.00	1.00	5.00
100 lin. ft. drilling bolt holes	.70	1.00	.50	1.00	1.00
43,100 cu. yds. fill	.42	.55	.40	.40	.50
2,450 cu. yds. riprap	2.50	3.50	3.00	3.00	4.00
180 cu. yds. reinforced concrete	12.00	10.00	10.00	15.00	15.00
210 cu. yds. stone paving	5.00	8.00	5.00	6.00	7.00
15,000 lin. ft. round piles	.50	.60	.60	.70	.70
232 M. ft. B. M. sheet piles	70.00	80.00	60.00	70.00	110.00
66.5 M. ft. B. M. oak timber	100.00	100.00	80.00	90.00	130.00
80,600 cu. yds. concrete (solid construction)	5.40	6.25	6.00	5.85	6.60
70,000 cu. yds. (arched-void construction, alternative bid)	5.90	7.00	6.60	6.74	7.50
1,200 cu. yds. concrete paving	7.50	8.00	6.00	10.00	7.00
914,500 lbs. structural steel	.075	.07	.06	.065	.07
20,100 lbs. reinforcing rods	.04	.07	.06	.055	.05
49,500 lbs. forgings (including wrought-iron)	.07	.07	.06	.07	.05
74,150 lbs. bolts, etc	.06	.07	.06	.0565	.05
234,700 lbs. iron castings	.055	.07	.06	.055	.05
175,300 lbs. steel castings	.085	.10	.08	.098	.10
1,170 lbs. bronze	.75	.90	.50	.85	1.00
300 lin. ft. pipe, 5-in	2.50	3.00	3.00	1.59	2.00
2,330 lin. ft. pipe, 4-in	2.00	3.00	2.50	1.10	2.00
1,020 lin. ft. pipe, 3-in	1.50	3.00	2.00	.77	1.00
190 lin. ft. pipe, 2½-in	1.20	1.50	1.50	.60	.60
580 lin. ft. pipe, 2-in	1.00	1.50	1.00	.40	.60
860 lin. ft. tile drain	.50	.75	1.00	.55	.60
Total	$862,091	$967,309	$894,776	$866,989	$1,009,665
Total alternative bid	$839,851	$953,589	$873,176	$867,279	$1,002,705

LOCK AND DAM.—Wheeling, W. VA.—Bids for constructing Lock and Dam No. 20, Ohio River, near Belleville, W. Va., were received on May 17, by Maj. F. W Altstaetter, Corps Engrs., U. S. A., as follows: (A) SHERIDAN-KIRK CONTRACT CO., Cincinnati, Ohio (awarded contract on regular bid); (B) Dravo Contracting Co., Pittsburg, Pa.; (C) T. A. Gillespie Co., Pittsburg, Pa.; (D) Ohio River Contract Co., Evansville, Ind.

LOCK AND DAM NO. 20, OHIO RIVER.

	A	B	C	D
4,240 lin. ft. cofferdam, 16-ft	$20.00	$21.00	$25.00	$25.00
1,500 lin. ft cofferdam, 10-ft	5.00	10.00	15.00	12.50
117,300 cu. yds. common excavation	.60	.65	.60	.70
1,000 cu. yds. rock excavation	1.00	3.00	4.00	3.50
37,200 cu. yds. fill	.40	.30	.30	.50
2,670 cu. yds. riprap	3.00	3.00	4.00	3.50
100 cu. yds. stone paving	6.00	5.00	7.00	8.00
9,050 lin. ft. round piles	.70	.60	.60	.60
129,00 ft. B. M. sheet piles	70.00	60.00	100.00	80.00
68,500 ft. B. M. oak timber	80.00	80.00	130.00	100.00
190 cu. yds. reinforced concrete	12.00	10.00	15.00	10.00
57,800 cu. yds. concrete (solid construction)	5.61	6.00	6.20	6.50
54,300 cu. yds. concrete (arched-void construction) alternative bid	6.00	6.40	6.70	6.75
1,800 cu. yds. concrete paving	7.73	6.00	7.00	8.00
917,900 lbs. structural steel	.065	.06	.07	.07
22,400 lbs. reinforcing rods	.055	.06	.07	.07
52,450 lbs. forgings (including wrought iron)	.058	.06	.07	.07
74,700 lbs. bolts, etc	.055	.06	.07	.07
247,500 lbs. iron castings	.055	.06	.07	.07
180,200 lbs. steel castings	.098	.08	.10	.10
1,170 lbs. bronze	.85	.50	1.00	.90
400 lin. ft. pipe, 5-in	1.59	3.00	2.00	2.00
2,550 lin. ft. pipe,5-in	1.10	2.50	2.00	2.00
1,020 lin. ft. pipe, 3-in	.77	2.00	2.00	2.00
190 lin. ft. pipe, 2½-in	.60	1.50	2.00	1.50
580 lin. ft. pipe, 2-in	.40	1.00	2.00	1.50
860 lin. ft. tile drain	.55	1.00	1.00	.75
Totals	$653,825	$686,343	$748,041	$774,564
Totals of alternative bids	$655,367	$687,063	$753,491	$765,389

*CHANNEL EXCAVATION.—Chicago, Ill.—Bids were received on May 19 by the Sanitary District of Chicago, for excavation and collateral work on Contract Section 3 of the Calumet-Sag Channel. The contractors bidding on this work follow: (A) S. R. H. Robinson Contracting Co., St. Louis, Mo.; (B) Foley & Gleason Co., Aitken, Minn.; (C) Robert Grace Contracting Co., Cleveland, Ohio; (D) John Marsch, Chicago; (E) John J. McCoughey, Chicago; (F) Shnable & Quinn, Chicago; (G) Marquette Construction Co., Chicago; (H) National Contracting Co., Chicago:

CHANNEL EXCAVATION, CHICAGO, ILL.

	A	B	C	D	E	F	G	H
325,000 cu. yds. glacial drift	$0.29	$0.20	$0.365	$0.19	$0.27	$0.30	$0.45	$0.57
197,000 cu. yds. rock excavation	.69	.83	.735	.75	.95	.91	.83	.80
183,500 sq. ft. of channeling	.25	.27	.20	.29	.20	.30	.28	.20
7,500 cu. yds. concrete retaining wall	4.95	6.75	6.00	8.90	8.50	6.21	5.17	5.45
11,400 sq. yds. of riprap slope	1.00	1.75	.80	2.25	.80	.56	1.48	1.00
Totals	$324,580	$348,630	$354,240	$355,115	$384,470	$384,779	$416,787	$431,825

EXAMINATIONS.

MARINE ENGINEER—New York, N. Y.—The Municipal Civil Service Commission, 299 Broadway, New York, will receive applications from May 20, until 4 p. m., June 5, for the position of Marine Engineer, to be held on June 26, at 10 a. m. The subjects and weights of the examination are as follows: Technical, 6; mathematics, 1; experience, 3. For technical paper, 75% will be required, and 70% on all. Candidates on filing applications must present a license. Minimum age, 21 years. One vacancy in Department of Correction. Salary, $1,350 a years. Frank A. Spencer, is Sec.

INSPECTOR OF IRON AND STEEL CONSTRUCTION—New York, N. Y.—The Municipal Civil Service Commission, 299 Broadway, New York, will receive applications until 4 p. m., June 9, for the position of Inspector of Iron and Steel Construction. No application delivered at the office of the Commission, by mail or otherwise, after 4 p. m., June 9, will be accepted. The examination will be held at 10 a. m., June 30. The subjects and weights of the examination are as follows: Technical, 50; experience, 20; mathematics, 10; report, 20. Seventy-five per cent. required on technical paper and 70% on all. Minimum age, 21 years. Vacancies, two in the Bureau of Buildings, Manhattan. Salary, $1,500 per annum. Frank A. Spencer, is Sec.

CABLE TESTER—New York, N. Y.—The Municipal Civil Service Commission, New York, will receive applications until 4 p. m., June 7, for the position of Cable Tester. No application delivered at the office of the Commission, by mail or otherwise, after 4 p. m., June 7, will be accepted. The examination will be held at 10 a. m., June 29. The subjects and weights of the examination are as follows: Experience, 5; duties, 5. Seventy per cent. required on experience, and 70% on duties. Candidates must have had three years' actual experience in cable testing. Candidates will be subjected to a practical test at a date to be announced later. Minimum age, 21 years. Vacancies, two in Fire Department. Salary, $1,200 per annum.

JUNIOR ENGINEERS.—Washington, D. C.—The U. S. Civil Service Commission announces an examination on June 14, to secure eligibles from which to make certification to fill 15 or more vacancies, and other vacancies as they may occur, in the position of Junior Engineer in the Water Resources Branch of the Geological Survey, or elsewhere in the service where such qualifications are required, unless it shall be decided in the interest of the service to fill such vacancies by reinstatement, transfer, or promotion. The entrance salaries will range from $900 to $1,200 a year, and expenses when on field duty. The examination will consist of the subjects mentioned below, weighted as indicated: Mathematics (algebra and geometry), 5 points; plane surveying, 5 points; irrigation engineering, 10 points; river hydraulics, 15 points; water-power engineering, 15 points; training, experience and fitness, 50 points. Applicants must have reached their 20th birthday. Examination from 1312.

APPRENTICE DRAFTSMAN.—Washington, D. C.—The U. S. Civil Service Commission announces an examination on June 21 to secure eligibles from which to make certification to fill vacancies as they may occur in the position of Apprentice Draftsman, Office of the Chief of Ordnance, War Department, at $360 a year, unless it shall be decided in the interest of the service to fill such vacancies by reinstatement, transfer or promotion. Promotion is made up to $60 a month, in the discretion of the Chief of Ordnance. An apprentice may enter the competitive examination for the position of Draftsman (entrance salary, $1,000 to $1,200) whenever, in the opinion of his superior officer, his training and experience are sufficient. The examination will consist of the subjects mentioned below, weighted as indicated: Mathematics, 25 points; mechanical drawing, 35 points; training, experience and fitness, 10 points. Applicants must have reached their 17th, but not their 21st, birthday. Examination form 1312.

INDUSTRIAL NOTES.

MR. W. N. KEISER has recently been appointed assistant to Mr. Geo. F. Lambert, who has charge of sales of the G. W. Parsons Co., manufacturers of trenching machinery, at Newton, Iowa.

MR. H. A. HUNT has been appointed Eastern sales agent of the Edgar Allen American Manganese Steel Co., with headquarters at New Castle, Del., which appointment was made in order to fill the vacancy caused by the resignation of Mr. V. W. Mason, Jr. The above change is effective as of May 16, 1911.

MR. ROBERT D. COOMBS has completed his work as structural engineer of electric traction of the Pennsylvania Tunnel and Terminal Railroad and has resumed his work with Fitzpatrick & Coombs, 1123 Broadway, New York, with the expectation of devoting considerable attention to certain future installations of overhead construction for A. C. trolley operation and high tension transmission pole lines.

THE BURT MANUFACTURING CO., Akron, Ohio, has just received another order from the United States Steel Corporation for two filters of what is termed the Gary unit type, as this particular type of filter was first installed in the Gary, Ind., plant. After these two filters are in operation it will make a total of 14 of these filters in use in this plant. These filters are used in connection with the flush system of lubrication, and each filter is cleaning 2,000 gallons of oil per hour, or 28,000 gallons per hour for the 14, making this oiling system the largest installation in the United States.

E. G. SOLTMANN announces the removal of his business to the Soltmann "Tee-Square" Building, 134-140 W. 29th St., New York. The house of Soltmann was established in 1880, and is widely known as headquarters for drawing materials, engineers' and architects' supplies; also as one of the most extensive producers of blue and other prints from tracings. It is the largest mail-order house in the world handling this line of goods exclusively. The new building is twelve stories and basement, 100 × 100 ft., and the equipment throughout is most up to date.

IN THE NOTABLE GROWTH of the Pittsburg industrial district, it is interesting to note that which has recently occurred at Koppel, Pa. Nestling on a broad plateau overlooking the Beaver River, the town is the home of the American plant of the Orenstein-Arthur Koppel Co., manufacturers of portable and industrial railways and equipment.

A little more than four years ago the plateau where Koppel now stands was planted in corn and productive of other things agricultural. Then the Koppel plant came and with the industrial activity the town was established. To-day it houses 1,500 people and is growing apace with the steady progress of the plant.

Before the expansion movement started several months ago the old buildings, exclusive of the 2-story office building, 50 × 40 ft., covered a total area of 70,000 sq. ft. The new buildings just completed cover a total of 66,875 sq. ft., making a grand total of 136,875 sq. ft. Later, when the other plans are completed and the additional buildings erected, the plant's inside area will aggregate almost 300,000 sq. ft.

The present plant, including the additions just made, covers a total of 45 acres. Besides that 50 acres has been reserved for the future extension planned and 25 acres have been reserved for finished and unfinished stock. A total of 700 acres in and about Koppel, Pa., is owned by the Koppel Land Co., and besides the 125 acres for the Orenstein-Arthur Koppel Co. plant, 200 acres have been set aside for industrial purposes only, free sites being offered to manufacturers.

The Koppel Co. undertook the recent building operations because they became imperative. The company has several large plants in Germany, France, Russia, Spain and Austria, where the Koppel industrial and portable railway systems and equipment are manufactured. The American business grew so rapidly that the extensions were necessary.

Twenty-five per cent. of the employees at the Koppel plant are foreigners. These, as well as the American workers, are well provided for. One of the chief buildings in the town is a substantial three-story brick hotel, where lodging and meals are provided at low rates. In addition a large number of houses in the town were built by the company. They are good ones, mostly frame construction. Several are of brick, however, and offer unusually good homes for the plant officials and workmen in general. The demand for houses has increased remarkably within the past few months and although the company has constructed them as rapidly as possible, the number is not yet sufficient. Plans for 50 more frame houses have been made and work will be started immediately. A handsome new brick schoolhouse is also planned and will likely be erected during the summer. Prior to that it is proposed to organize Koppel into a borough and application to that effect will be made in the Beaver County Courts. The officials of the Koppel company planned for the town's future when the plant was first located there. The result is that the town has an excellent water supply, superior to most in smaller manufacturing towns. Its geographical location is excellent, lying 175 ft. above the Beaver River on a large plateau, consisting of about 1,500 acres, and with a gradual slope that is sufficient for sanitary conditions of drainage. The town has about a mile of paved streets, 2½ miles of graded streets, 4 miles of sewers and 2 miles of water lines.

In addition there is 1¼ miles of a 10-in. line that connects the town with a reservoir in the hills west of Koppel. The water system is owned by the Koppel Water Co., which was chartered last fall. A large acreage of ground was secured and a reservoir having a capacity of 6,000,000 gallons was built.

TRADE PUBLICATIONS.

(The standard sizes for pamphlets and trade catalogs recommended by all the principal engineering societies of the United States are: 3½ x 6 ins., 6 x 9 ins. and 9 x 12 ins.)

POWER-STATION APPARATUS.—General Electric Co., Schenectady, N. Y. Miscellaneous bulletins. Paper; 8 × 10½ ins.; illustrated.

In Bulletin 4799 are shown and pictured in considerable detail several types of revolving field alternators of horizontal and vertical type.

In Bulletin 4820 is found the company's latest information concerning its curve-drawing ammeters and voltmeters.

In Bulletin 4823 are shown some large oil switches for voltages not to exceed 15,000 in one type and for 110,000 in another type. There is a double break for each pole, and the break takes place under oil.

In Bulletin 4821, a smaller type of solenoid-operated oil-breakswitch, for use on circuits of 15,000 volts, is described.

LIST OF CONTRACTS PENDING

Plans and Specifications on File.

The following plans (P.) and Specifications (S.) are on file for reference only unless otherwise noted at the office of The Engineering News Publishing Co., 220 Broadway, New York.

Bids close.		Noted in issue of
6- 3	Floating cranes, Hawaii.....(S.)	4- 6
6- 3	Locomotive, Portsmouth, N. H. ....(S.)	4-27
6- 3	Extension of dikes, Vallejo, Cal. (S.)	5- 4
6-10	Quay wall, Portsmouth, N. H. ....(S.)	5-25
6-17	Renewal of track, Norfolk, Va. ....(S.)	5-25
6-19*	Irrigation system, Manteca, Cal. ....(P. & S.)	5-25

Light, Heat and Power Plants.

6- 1	Conduit system and standards, Lock Haven, Pa.	6- 1
6- 2	Motor driven pump, Fort Morgan, Ala	5-11
6- 2	Power house, Columbus, Ohio	5-11
6- 3	Boilers, Mount Vernon, Mo.	6- 1
6- 4	Heating system, Fulton, Mo.	5-25
6- 5	Power plant and machinery, Los Angeles, Cal	5-11
6- 6	Street lighting system, Amsterdam, N. Y	5-18
6- 6	Electrical equipment, Toronto, Ont	5-18
6- 6	Motor, Rock Island, Ill.	5-25
6- 6	Electrical and heating system, Newark, N. J.	6- 1
6- 6	Heating and ventilating, Oakland, Cal.	6- 1
6- 7	Lighting plant, Eufala, Ala	5-11
6- 8	Power house, Santa Rosa, Cal.	5-11
6- 8	Heating system, Baltimore, Md.	5-11
6- 9	Water-tube boiler, Phila., Pa.	5-25
6-10	Electric light system, Colquitt, Ga.	5-11
6-12	Electric light & lighting system, Fort Howard, Md.	5-25
6-12	Pumps, New York, N. Y.	6- 1
6-13	Electric light plant, Dyersburg, Tenn.	6- 1
6-13	Power station, Prince Albert, Sask	5-25
6-15	Power plant, Milwaukee, Wis.	6- 1
6-15	Electric lighting system, Fort Flagler, Wash.	6- 1
6-16	Heating and power plant, Fort Sheridan, Ill.	6- 1
6-17	Lighting system and fixtures, Helena, Mont.	5- 4
6-26	Electric plant, Prince Albert, Sask.	6- 1

Bridges.

6- 2	Bridge, Hutchinson, Kan.	5-25
6- 2	Bridge, Eaton, Ohio	6- 1
6- 3	Bridge work, Cleveland, Ohio	5-18
6- 5	Bridge, Redwood City, Cal	5-18
6- 5*	Bridge, Lackawanna, N. Y.	5-11
6- 5	Bridges, Pekin, Ill.	5-25
6- 5	Bridge, Greenwood, Miss.	5-25
6- 5	Bridge work, Greensburg, Ind.	5-25
6- 5	Bridges, Franklin, Ind.	5-25
6- 5	Bridge, Martinsville, Ind.	5-25
6- 5	Bridge repair, Leavenworth, Kan.	6- 1
6- 5	Bridge, Toronto, Ont.	6- 1
6- 6	Bridge work, Red Bluff, Cal.	6- 1
6- 6	Bridge work, Rushville, Ind.	5-25
6- 6	Culverts, etc., Shelbyville, Ind.	5-25
6- 6	Bridge work, Rockville, Ind.	5-25
6- 6	Bridges, Boonville, Ind.	5-25
6- 6	Bridge, Santa Barbara, Cal	5-18
6- 6	Bridges, Linneus, Mo.	5-25
6- 7	Bridge, Oroville, Cal.	5-25
6- 7	Bridge work, Somerset, Pa	5-18
6- 7	Bridge work, Lebanon, Ind.	5-25
6- 7	Bridge, Jacksonville, Fla.	6- 1
6- 9	Bridges, Tacoma, Wash.	5-25
6-10	Bridge, Milwaukee, Wis.	6- 1
6-10	Bridge, Smethport, Pa.	6- 1
6-12	Bridge, Ironton, Ohio	6- 1
6-12	Bridge, Indianapolis, Ind.	5-25
6-13	Bridges, Scottsburg, Ind.	5-25
6-13	Trestle, Eureka, Cal.	6- 1
6-14	Bridge repair, Leavenworth, Kan.	6- 1
6-15	Bridge, Rivers, Man.	6- 1
6-16	Bridge, Ritzville, Wash.	6- 1
6-17	Bridge, Spain ....(Foreign)	4- 6
6-20	Bridge work, Tallulah, La.	5-25
6-20	Bridge, Bluffton, Ohio	6- 1
6-20*	Bridge, Kutztown, Pa.	6- 1
6-22	Bridge, Eldora, Ohio	6- 1
6-23	Bridge work, Cincinnati, Ohio	6- 1
6-26*	Bridge, Tacoma, Wash.	6- 1
7- 3	Viaduct, Houston, Tex.	6- 1
7- 3	Bridge, Santa Fe, N. Mex.	5-25
7- 5	Bridge, Yreka, Cal.	5-25

Buildings.

6- 1	School, Gary, S. Dak.	6- 1
6- 1	Building, Simcoe, Ont.	6- 1
6- 2	Village hall, Clarkfield, Minn.	6- 1
6- 2	Addition to courthouse, Trenton, N. J.	5-25
6-3	Isolation hospital, San Francisco, Cal.	5-25
6- 5	Additions to school, Albany, N. Y.	5-25
6- 5	Laundry, Springfield, Ohio (Mfg. Pl.)	5-25
6- 5	School, Ogden, Iowa	5-25
6- 5*	U. S. post-office, Dublin, Ga.	4-27
6- 5	Isolation hospital Ft. Sheridan, Ill.	6- 1
6- 5	School, Everest, Kan.	6- 1
6- 6	Home for nurses, Soho, N. J.	6- 1
6- 6	School, Richland, Ind.	6- 1
6- 6	Asylum, Rockport, Ind.	5- 4
6- 6	U. S. post-office, Wichita Falls, Tex.	5- 4
6- 6	Bank bldg., Monterey, Mex.	5-11
6- 6	Asylum, Rockport, Ind.	5-11
6- 6	Armory, East Orange, N. J	5-18
6- 6	Courthouse, Ville Platte, La.	5-18
6- 6	Jail, Sioux Falls, S. Dak.	5-25
6- 6	Courthouse, Kenansville, N. C.	5-25
6- 6	U. S. post-office, Clay Center, Kan.	5-25
6- 6	Hospital, Kansas City, Mo.	5-25
6- 6	Courthouse, Imperial, Neb.	5-25
6- 6	Public bldg., Wetaskiwin, Alta.	5-25
6- 7	School, Fargo, N. Dak.	5-25
6- 7	School, Staunton, Ind.	5-25
6- 7	Remodeling U. S. post-office, Wilmington, Del.	5- 4
6- 7	Jail, Medicine Lake, Mont.	6- 1
6- 7	Schools, Hackensack, N. J.	6- 1
6- 7	Building, Jamestown, N. Dak.	6- 1
6- 7	School, Vanburen, Ind.	6- 1
6- 7	Completion of dormitory, N. Y.	6- 1
6- 8	Plans for school, Dayton, Ohio	6- 1
6- 8	School, Van Wert, Ohio	5-18
6- 8	School, Owyhee, Nev.	5-25
6- 8	Courthouse, Pawnee City, Neb.	5-25
6- 9	U. S. post-office, Victoria, Tex.	5- 4
6- 9	School, Kearney, N. J.	6- 1
6- 9	Court-house and jail, Raeford, N. C.	6- 1
6- 9	City hall & jail, Watkins, Minn.	6- 1
6- 9	School, Kimball, Minn.	6- 1
6-10	School, Coshockton, Ohio	6- 1
6-10	Addition to school, Muscatine, Ia.	6- 1
6-12	Court-house, Nowata, Okla.	6- 1
6-12	Edifice, Youngstown, Ohio	6- 1
6-12	School, Newark, Ohio	5-25
6-12	Courthouse, Sidney, Neb.	5-25
6-12	School, Dayton, Ohio	5-25
6-14	Stations & Bldgs., Ottawa, Ont.	5-25
6-14	Plans for school, Waverly, N. Y.	6- 1
6-15	Railway and steamer terminal, Norfolk, Va.	6- 1
6-15	Buildings, Denver, Colo.	5-25
6-15	Library, Pierce, Neb.	5-25
6-19	Buildings, Columbus, Ohio	6- 1
6-22	U. S. post-office, La Grande, Ore.	5-25
6-27	U. S. post-office, Gettysburg, Pa.	5-25
6-28	U. S. post-office, Suffolk, Va.	6- 1
7- 1	Plant, Detroit, Mich. (Mfg. Pl.)	6- 1
7- 5	U. S. post-office, Wash., D. C.	6- 1
7-27*	Group of buildings, Olympia, Wash.	5-11

Water-Works.

6- 2	Well, Hartington, Neb.	5-25
6- 2	Pumps, St. Louis, Mo.	5-11
6- 2	Water-works improvements, Mandan, N. Dak.	5-18
6- 2	Pump, etc., Fort Morgan, Ala.	5-18
6- 3	Reservoir, Fort Worden, Wash.	5-25
6- 3	Engines, Pittsburg, Pa.	6- 1
6- 3	Water-mains, Emerson, Neb.	6- 1
6- 4	Sale of pump, plant, Deseronto, Ont	5-18
6- 5	Pipes, valves, etc., New York	5-25
6- 5	Water mains, Niagara Falls, N. Y	5-25
6- 5	Water main extension, Central Point, Ore.	5-25
6- 5	Water pipe, Eden Valley, Minn.	5-25
6- 5	Main extensions, Valley City, N. Dak.	5-25
6- 5	Water-works, Leon, Iowa	5-25
6- 5	Watermains, Slayton, Minn.	5-25
6- 5	Pipe, etc., Yonkers, N. Y.	5-25
6- 5	Trenches for pipe, San Luis Obispo, Cal.	6- 1
6- 5	Reservoir, Vallejo, Cal.	6- 1
6- 5	Wells, Alturas, Cal.	6- 1
6- 5	Watermains, Cudahy, Wis.	6- 1
6- 6	Sprinkler equip., New York	6- 1
6- 6	Water-works, Tacoma, Wash.	6- 1
6- 6	Water system, Schenectady, N. Y.	6- 1
6- 6	Reservoir, Kenton, Ohio	5-25
6- 6	Water plant impvt., Plainfield, Ind.	5-25
6- 6	Water pipe, Chisholm, Minn.	5-25
6- 7*	Water-works, Winters, Tex.	5-25
6- 7	W.-wks. improvements, Basin, Wyo.	5-25
6- 7	Franchise, Richfield, Cal	5-18
6- 7*	Water-works, etc., Bristol, Pa.	5-18
6- 8*	Reservoir, Geneva, N. Y.	5-25
6- 8	Reservoir, Quincy, Cal.	6- 1
6- 9	Pipe, White Plains, N. Y.	6- 1
6- 9*	Intake extension, Marquette, Mich.	5-18
6-10	Water pipe, etc., Rayne, La.	6- 1
6-12	Watermains, Lewistown, Mont.	6- 1
6-12	Purification plants, Willmar, Minn.	6- 1
6-12	Furnishing water, Richmond, Ind.	5-25
6-13	Gate-valves, etc., Detroit, Mich.	6- 1
6-13	Watermains, reservoir, etc., Biggar, Sask.	6- 1
6-14	Pumps, Richmond, Va.	6- 1
6-15	Water-works impvts., Tarboro, N. C.	6- 1
6-15	Pumps, Philippine Islands (U. S. Poss.)	5- 4
6-15	Dam, Williamsburg, Mass.	5-25
6-17*	Pipe, valves, etc., Evansville, Ind.	5-25
6-19*	Irrigation system, Manteca, Cal.	5-25
6-19*	Dike, Thistle, Utah	5-18
6-19	Penstock, Seattle, Wash.	6- 1
6-20	Engines and pumps, India (Foreign)	4-27
6-20*	Laying pipe, Toronto, Ont.	6- 1
6-24	Pump, etc., N. Mankato, Minn.	6- 1
6-27	Water-works, Red Springs, N. C.	6- 1
6-29*	Pumping machinery, etc., Montreal, Que.	5-25
6-30	Filter equip., etc., Minneapolis, Minn.	6- 1

Sewers.

6- 1	Sewers, Buffalo, N. Y.	6- 1
6- 1	Sewers, Sheldon, Iowa	6- 1
6- 1	Sewers, Albert Lea, Minn.	6- 1
6- 1	Sewers, Sheboygan, Wis.	6- 1
6- 1	Sewer, Ft. Atkinson, Wis.	6- 1
6- 2	Sanitary sewers, Richland Center, Wis.	5-25
6- 2*	Sewers, Bellefontaine, Ohio	5-11
6- 2	Sewer, Ft. Hamilton, N. Y.	5-11
6- 2	Sewers, Williamsport, Pa.	6- 1
6- 3*	Sewer, Englewood, N. J.	5-11
6- 3	Sewer pipe, San Diego, Cal.	6- 1
6- 5	Sewer, Ottumwa, Iowa	6- 1
6- 5	Sewer, Omaha, Neb.	6- 1
6- 5	Sewers, Oakes, N. Dak.	6- 1
6- 5	Sewers, Cudahy, Wis.	6- 1
6- 5*	Sewage disposal plant, Fort Sheridan, Ill	5-11
6- 5	Sewers, Willoughby, Ohio	5-18
6- 5	Sewer, Washington, D. C.	5-25
6- 5	Disposal of sewage, Plankinton, S. Dak.	5-25
6- 6*	Pump, etc., Toronto, Ont.	5-11
6- 6	Sewer construction, Ossining, N. Y.	5-11
6- 6	Sewer, Estevan, Sask.	6- 1
6- 7*	Sewers, Bristol, Pa	5-18
6- 7	Sewers, Meadville, Pa.	6- 1
6- 8*	Sewer, Grand Rapids, Mich	5-18
6-10	Sewer construction, Huntington, W. Va.	6- 1
6-12	Sewers, Willmar, Minn.	6- 1
6-12*	Sewer, Johnstown, N. Y.	5-25
6-13	Sewers, Galion, Ohio	6- 1
6-14	Sewers, West Chester, Pa.	5-25
6-15	Sewer, Troy, N. Y.	6- 1
6-19	Sewer, Brainerd, Minn.	6- 1
6-20	Sewer system, Toccoa, Ga.	6- 1
6-20	Sewers, Madison, S. Dak	5-18
6-27	Sewer, Red Springs, N. C.	6- 1
7- 3	Sewage disposal system, San Jose, Cal.	2-23

Streets and Roads.

6- 1	Macadamizing, etc., New Brunswick, N. J.	6- 1
6- 2	Street impvt., N. Braddock, Pa.	6- 1
6- 2	Sidewalks, Montreal, Que.	6- 1
6- 2	Paving, etc., Archbold, Ohio	5-25
6- 2	Paving, etc., Troy, N. Y.	5-25
6- 2	Paving, Concord, N. H.	5-25
6- 2	Paving, etc., Indianapolis, Ind.	5-25
6- 2*	Paving, etc., Olean, N. Y.	5-25
6- 2	Trap rock, Concord, N. H.	5-18
6- 2	Road improvement, Cincinnati, Ohio	5-18
6- 2*	Paving, Altoona, Pa.	5-25
6- 2	Paving, etc., Mt. Pleasant, Iowa	5-25
6- 3	Road improvement, Marysville, O.	5-25
6- 3	Paving, Denver, Colo.	6- 1
6- 5	Paving, etc., Irvington, N. J.	6- 1
6- 5	Paving, etc., Wilkes-Barre, Pa.	6- 1
6- 5	Gravel road, Delphi, Ind.	6- 1
6- 5	Paving, Annapolis, Md.	6- 1
6- 5	Paving, Lakewood, Ohio	6- 1
6- 5	Paving, Wauseon, Ohio	6- 1
6- 5	Street impvt., Vancouver, B. C.	6- 1
6- 5	Grading, etc., Pittsburg, Pa.	6- 1
6- 5*	Paving, Steelton, Pa.	5-18
6- 5*	Paving, Portsmouth, N. H.	5-25
6- 5*	Paving, etc., Annapolis, Md.	5-25
6- 5*	Paving, etc., Newburgh, N. Y	5-25
6- 5*	Sidewalks, Gadsden, Ala.	5-25
6- 5	Paving, Harlan, Iowa	5-25
6- 5	Paving, etc., South Bend, Wash.	5-25
6- 5	Pike roads, English, Ind.	5-25
6- 5	Stone roads, Rensselaer, Ind.	5-25
6- 5	Road, Salem, Ind.	5-25
6- 5	Macadam road, Greensburg, Ind.	5-25
6- 5	Road improvement, Portland, Ind.	5-25
6- 5	Pike road, Vernon, Ind.	5-25
6- 5	Gravel road, Williamsport, Ind.	5-25
6- 5*	Paving, Bridgeport, Conn.	5-25
6- 5	Paving, etc., Willoughby, Ohio	5-18
6- 5	Paving, Marion, Kan	5-18
6- 6	Grading, etc., Upper Marlboro, Md.	5-25
6- 6	Paving, etc., Stockton, Cal.	5-25
6- 6*	Paving, Dunkirk, N. Y.	5-25
6- 6	Sidewalk, Great Neck, N. Y.	5-25
6- 6	Road, Cape May C. H., N. J.	5-25
6- 6	Paving, Pittsburg, Pa.	5-25
6- 6	Sidewalks, etc., Pasco, Wash.	5-25
6- 6	Macadam roads, Valparaiso, Ind.	5-25
6- 6	Gravel roads, Winamac, Ind.	5-25
6- 6	Stone roads, etc., Brazil, Ind.	5-25
6- 6	Road improvement, Princeton, Ind.	5-25
6- 6	Gravel roads, Vincennes, Ind.	5-25
6- 6	Road, Wabash, Ind.	5-25
6- 6	Macadam road, Bloomfield, Ind.	5-25
6- 6	Gravel road, Petersburg, Ind.	5-25
6- 6	Gravel roads, Bedford, Ind.	5-25
6- 6	Gravel road, Princeton, Ind.	5-25
6- 6	Gravel road, Nobleville, Ind.	5-25
6- 6	Road improvement, Winamac, Ind.	5-25
6- 6	Gravel roads, Washington, Ind.	5-25
6- 6	Gravel road, Wabash, Ind.	5-11
6- 6	Macadam roads, Rushville, Ind.	5-18
6- 6	Highways, Hazlehurst, Miss	5-18
6- 6	Macadam roads, Logansport, Ind	5-18
6- 6	Gravel roads, Kokomo, Ind.	5-18
6- 6	Grading, Jersey, City, N. J.	6- 1
6- 6	Street impvt., West N. Y., N. J.	6- 1
6- 6	Paving, etc., Bellevue, Pa.	6- 1
6- 6	Paving, etc., Sharpsburg, Pa.	6- 1
6- 6	Paving, etc., Pittsburg, Pa.	6- 1
6- 6	Paving, Centralia, Wash.	6- 1
6- 6	Paving, Gloversville, N. Y.	6- 1
6- 6	Paving, etc., Natrona, Pa.	6- 1
6- 7	Paving, etc., Auburn, Wash.	6- 1
6- 7	Paving, Washington, Iowa	6- 1
6- 7	Paving, etc., New York	6- 1
6- 7	Paving, etc., Baltimore, Md.	6- 1
6- 7	Paving, Struthers, Ohio	6- 1
6- 7	Rock road, Monticello, Ind.	5- 4
6- 7	Stone road, Monticello, Ind.	5-25
6- 7	Road improvement, Bloomington, Ind.	5-25
6- 8	Gravel roads, Lafayette, Ind.	5-25
6- 8	Gravel roads, Mt. Vernon, Ind.	5-25
6- 8	Paving, Little Rock, Ark.	6- 1
6- 9	Street impvt., St. Louis, Mo.	6- 1
6- 9	Road improvement, Cincinnati, Ohio	5-25
6-10	Macadam roads, Fort Sill, Okla.	5-25
6-10	Road impvt., Greenville, Ohio	6- 1
6-12	Road work, Sandusky, Ohio	6- 1
6-12	Paving, New York, N. Y.	6- 1
6-12*	Highway improvement, Albany, N. Y.	5-25
6-12*	Paving, etc., Ridgway, P...	
6-14*	Highway improvement, ... N. Y.	5-25
6-14	Sidewalks, St. Bernard, O...	5-25
6-14*	Paving, Camden, N. J.	5-25
6-14	Macadamizing, Paterson, ...	5-25
6-14	Road impvt., Canton, Oh...	6- 1
6-15*	Paving, etc., Chattanooga...	6- 1
6-15	Highway, Winamac, Ind.	5-25
6-15	Gravel road, Winamac, I...	5-25
6-16	Road work, Cincinnati, O...	6- 1
6-16*	Paving, Holyoke, Mass.	6- 1
6-17	Macadam road, Pocatello, ...	6- 1
6-20	Macadamizing, etc., Spri... Tenn.	6- 1
6-17	Paving, Washington, D. C.	6- 1
6-21	Road impvt., Columbus, O...	6- 1

Miscellaneous.

6- 1	Rock removal, De Pere, W...	6- 1
6- 2	Iron culverts, Portland, Or...	6- 1
6- 2	Dam, Newark, Ohio	6- 1
6- 2	Pipe, etc., Buffalo, N. Y.	6- 1
6- 2	Timber, lumber, etc., New Y...	5-25
6- 3	Garbage furnace, North Brad... Pa. ....(Garb...)	5-25
6- 3*	Dredging, Chicago, Ill.	5-25
6- 3	Locomotive, Portsmouth, N...	4-27
6- 3	Extension of dikes, Vallejo, ...	5- 4
6- 3	Fabricated steel struc. mat... Hawaii (U. S. Poss.)	5-11
6- 3	Dredging, Jacksonville, Fla.	5-18
6- 3	Levees, etc., Santa Ana, Cal	5-18
6- 3	Drainage, Champaign, Ill.	6- 1
6- 5	Steel tower, Etna, Pa.	6- 1
6- 5	Retaining wall, Dayton, Ohio	6- 1
6- 5	Drainage, Urbana, Ill.	6- 1
6- 5	Wharf, Mulgrave, N. S.	6- 1
6- 5*	Lock and dam, Wheeling, W. Va.	5-11
6- 5	Iron pipe, New York	5-25
6- 6	Street sweepers, McKeesport, ...(Garb...)	5-25
6- 6	Pier extension, Sault Ste. Ma... Ont.	5-25
6- 6	Franchise (electric railway), Fowler, Cal.	5-11
6- 6*	Dredge, Nashville, Tenn.	5-11
6- 6*	Drainage canals, levees, etc., New Orleans, La.	5- 4
6- 6	Towboat, Vicksburg, Miss.	4-27
6- 6	Franchise (Electric Railway), Chico, Cal.	5-11
6- 6*	Dredging, Detroit, Mich.	5-18
6- 6	Rock, New Orleans, La	5-18
6- 6	Ditch work, Louisville, Ky.	6- 1
6- 6	Grading, Jersey City, N. J.	6- 1
6- 7	Garbage disposal, N. Y. (garbage)	6- 1
6- 7	Dredging, Canton, Ohio	6- 1
6- 7	Wireless Telegraph Inspector, Washington, D. C.	5-18
6- 7	Cable, Australia (Foreign)	4-27
6- 7*	Dredge hull, scows, Washington, D. C.	5-11
6- 7	Harbor impvt., Port Clinton, Ohio	5-25
6- 8	Repairs of Dams, Rock Island, Ill.	5-18
6- 8	Playground, New York	6- 1
6- 8	Field house, New York	6- 1
6- 8	Water pipe, Montreal, Que.	6- 1
6- 9	Dredging, etc., New York	6- 1
6- 9	Repairs to steamer, New York	6- 1
6- 9	Canal, Cornwall, Ont.	6- 1
6- 9*	Breakwater, Newport, R. I.	5-18
6- 9	Wagon shed, Portland, Me.	5-25
6-10	Quay wall, Portsmouth, N. H.	5-25
6-10	Roadbed, Boise, Idaho	6- 1
6-10*	Dredging, New York	6- 1
6-12	Elevators, New York	6- 1
6-12	Stone, Memphis, Tenn.	6- 1
6-12	Drainage, Urbana, Ill.	6- 1
6-12	Cottage, Fort Simcoe, Wash.	5-18
6-12	Wharf, Montebello, Que	5-18
6-12	Wharf, etc., Beaumaris, Ont.	5-18
6-12	Iron and steel, New York	6- 1
6-13	Wharf, Charleston, S. C.	6- 1
6-13	Piers, Norfolk, Va.	6- 1
6-14	Dike, etc., Big Island, Va.	5-25
6-15	Fire engine, Washington, D. C.	5-11
6-16*	Dredging, Savannah, Ga.	5-18
6-17*	Dredging, Portland, Me.	5-25
6-17	Renewal of track, Norfolk, Va.	5-25
6-17	Seawall, Norfolk, Va.	6- 1
6-19*	Canal, St. Paul, Minn.	5-25
6-20*	Dredging, Newport, R. I.	5-25
6-20	Hose, Washington, D. C.	5-11
6-20	Colliers and tugs, Wash., D. C.	4-27
6-20*	Coal, New York	6- 1
6-22*	Dredging, Boston, Mass.	5-25
6-23*	Towboats, Cincinnati, Ohio	5-25
6-23	Rock excavation, Boston, Mass.	6- 1
6-24	Dredging, Philadelphia, Pa.	6- 1
6-26	Dredging, Baltimore, Md.	6- 1
6-26*	Dredging, Jacksonville, Fla.	6- 1
6-26*	Rock excavation, Boston, Mass.	6- 1
6-26*	Ledge excav., dredging, Portland, Me.	6- 1
6-26	Breakwaters, etc., Cleveland, Ohio	5-25
6-26*	Dredging, Baltimore, Md.	5-25
6-29*	Lock masonry, Detroit, Mich.	5-11
6-29	Cable tester, New York	6- 1
7- 3	Police patrol telegraph system, Winnipeg, Man.	5-11
7-15	Station building, Charleston, S.C.	6- 1
7-22*	Harbor work, Chile (Foreign)	4-27
8- 1	Designs, etc., for monument, Cincinnati, Ohio	2- 9

Examinations.

Examination date.		Noted in issue of
6- 3	Oiler, Washington, D. C.	5-11
6-14	Asst. Elec. Engr., New York	5-11
6-19	Mechanical Engineer, New York	5-11
6-21	Bacteriological Chemist, Wash., D. C.	5-18
6-21	Apprentice Draftsman, Washington, D. C.	5-25
6-22	Chemist, New York, N. Y.	5-25
6-29	Cable Tester, New York	6- 1
6-30	Inspector of Iron and Steel construction, New York	6- 1

CURRENT PRICES OF ENGINEERING MATERIALS

Supplement to ENGINEERING NEWS, appearing in the First Issue of Each Month. New York, June 1, 1911.

PRICE CHANGES AND THE BUSINESS OUTLOOK.

The volume of business being booked in the iron and steel lines is no larger than a month ago. The steel manufacturing plants of the country are operating to about two-thirds capacity, and in spite of lower quotations in some lines no new business has developed. This industry probably showed the effects of the depression more than any other because it recovered so quickly from the panic of 1907. In spite of the fact that it is now operating to only about two-thirds of its capacity, the production of pig iron is only 20% less than in the boom years of 1906 and the early part of 1907. Productive capacity has evidently gone ahead of consumptive demands.

The copper market, which for months has been in a most unsatisfactory state, shows some improvement. Prices continue near the lowest figures reached in the last decade, but the demand has appreciably improved. Large sales have been made to consumers and the consumption of copper is greater than ever before.

The cement business shows some improvement, but the demand is considerably less than the supply.

A deep cut was made in the price of finished steel products, May 29.

The rubber market has again declined and new records for this year, last year, and in fact any time since September, 1908, are a matter of almost daily occurrence. Building construction is falling off in practically all sections of the country, and all classes of building materials are lower.

Labor conditions show a decided improvement. The month of May is one in which there is usually a number of strikes in all parts of the country. This year the country has been singularly free from any labor disturbances, the principal one being a strike among the machinists in New York, minor strikes being reported on the Pennsylvania Railroad among shopmen and the brick makers' strike in Chicago. These are in a fair way to be settled at an early date, and moreover, are not at all serious. The supply of common labor is in excess of the demand, and in some sections the wage has dropped below the $1.50 basis established early in the year. For all kinds of construction work labor is plentiful. The same applies to machine shop help, and in practically every other line of industry.

Monetary conditions have improved decidedly during the year. No sooner is a bond issue announced than the statement is made that all bonds have been sold. It is significant to note at this time that the municipalities of the country are able to sell their bonds at a better rate of interest than during the year immediately preceding. At the same time it is well to point out that the output of municipal securities has doubled in the last decade. While this money has been spent for municipal improvement, the interest must be paid. It is having a very important bearing on the increased tax rate which must be taken into consideration along with plans for further municipal enterprises.

The far reaching decision handed down by the U. S. Supreme Court in the long pending Standard Oil case has had little or no effect on business conditions. It does mean, however, that money invested in legitimate enterprises, whether they be corporations or co-partnerships, will be protected and at the same time any combinations which seek to enhance prices simply because they control the output will be made to dissolve. The decision has been favorably commented on by business men and has been received far better in the business world than was the Northern securities decision.

Few new enterprises have been announced during the month, and new railway construction is especially meager. In New York few large buildings are projected, and the most important work is the completion of the Catskill Aqueduct and the new Hell Gate Bridge.

LABOR.

The machinists' strike in New York is causing little inconvenience to the trade and evidently the prospects of securing shorter working days are less than a month ago. Applications have been received from machinists out of town to take the place of the strikers, but as yet the employers have not been willing to import outside men, preferring to retain the places for New York workmen. Numerous applications have been received at the headquarters of the Metal Trades Association for positions, and it is evident that all the shops could be run at full time if they so desired. A series of strikes on the Pennsylvania Railroad and some rioting in Altoona has been one of the disturbing factors this month. In Chicago there is a strike among the teamsters and the brickmakers, which has practically tied up the building trades. This will not be of very long duration. Aside from these the country is singularly free from strikes at this time, the number reported being far less than usual. This emphasizes the unsatisfactory condition of trade and the surplus of workmen. For rough labor, $1.50 is the general rate and there are a number of unemployed workmen willing to work at this figure. In a large Pennsylvania lumber camp, where laborers were imported about two months ago and paid $1.50, the wages were reduced to $1.35. Those men who were imported were offered railroad fare to New York if they did not accept the cut; as a result, one man out of thirty-five left.

CEMENT, LIME AND BRICK.

PORTLAND CEMENT.—Prices are slightly firmer and some sales have been made at $1.53, New York. This is the general quotation at present, but some few sales have been made at $1.48. A number of old contracts are still hanging over the market at $1.43. Business is fair, but the mills could take care of considerable increase without taxing their facilities. It is felt that undue influence may be brought to bear in compelling certain consumers to purchase cement of favored producers. Such matters are extremely difficult to trace, and especially in the light of agitation, regarding unrestrained competition, it is almost impossible to secure any direct evidence on this point. In years past the same argument has been used regarding steel manufacturers and some of the smaller cement producers feel that the time is approaching when they may become akin to the independent steel manufacturers. This, however, is not the most serious trouble at present, for the lack of business overshadows other considerations. Irrespective of other markets, cement sellers affirm that the Standard Oil decision has had no effect on their business.

As stated, quotations in New York are $1.48 to $1.53 per bbl. with an allowance of 40 cts. for bags returned. In Boston, $1.62 is quoted in wooden bbls. and the same price in cloth sacks with an allowance of 40 cts. for sacks. In that market cement in paper bags can be had at $1.42. On the Pacific Coast prices range from $2 to $2.40 per bbl. The Eastern quotation represents a price of 85 to 95 cts. per bbl. in bulk at the mill.

Imported cement is unchanged at $2.42 for Alsen's and $2.43 for Dyckerhoff's.

NATURAL CEMENT.—Business is quiet and quotations continue without change at 80 cts. per bbl. in New York and $1.05 in Boston.

PLASTER BLOCKS.—For large lots, prices are as follows:

	Weight, lbs. per sq. ft.	Price, cts. per sq. ft.
2-in.	7	6
3-in.	8½	6½
4-in.	11	7¼

These blocks are made 32-in. long by 13½-in. wide, containing 3 sq. ft. of surface. The 2-in. blocks are solid, but the others are hollow.

Plaster boards, ⅝-in. thick, are 16 cts. per sq. yd.

BRICK.—The market is firmer and the demand for brick in New York is fairly active. New York prices are slightly firmer with Hudson River common quoted at $6. Raritan River brick can be had at $5.75 to $6. In New Jersey business is more active and some of the brick-making plants, which last year only ran part-time, will run full time this year. In Chicago there is a brickmakers' strike, involving only 2,500 men, but practically tying up the entire industry. Brick are being shipped to Chicago by rail, but the teamsters refuse to haul it. As a result, second-hand brick are at a premium.

White enameled brick are held at the unchanged price of $60 per thousand for the American size (8¾ × 2¼-in. enameled surface by 4⅛-in. bed), and $70 to $75 for the English size (9 × 3-in. enameled surface by 4½-in. bed). These prices are f. o. b. Perth Amboy.

LIME.—The following prices are for lots of 500 bbls., delivered in New York City: State common, per bbl., 75 cts.; Rockland-Rockport common, 92 cts.; Rockland-Rockport special, 300 lbs., $1.37; finished, 300 lbs., $1.47; finishing, 200 lbs., $1.02, and 350 lbs., $1.62; New Milford, $1.30.

STONE.

BLUE STONE.—The demand continues excellent and there is a scarcity of stone. Whereas a month ago stone could be had at 17 cts., now 18 cts. is the absolute minimum and should the demand continue there seems to be little reason why the price should not advance to 19 cts. Stocks are not large and the following quotations are current for delivery either alongside of dock or f. o. b. cars, New York:

For delivery, either alongside of dock, f. o. b. cars, New York, prices are without change, as follows: Flagging, 6 cts. per sq. ft. per in. of thickness; flagging, 2½ to 3-in. thick, that will pass New York City specifications, 18 to 19 cts. per sq. ft. Sewer bottoms, 5 ft. sq. and 3-in. thick, are sold at 25 cts. per sq. ft. Curbing, 5 × 16-in., is 40 cts., and 5 × 25-in., by 5-in. thick, is 60 cts., and 6-in. thick is 65 to 70 cts. per lin. ft., 5 × 20-in. by 5-in. thick is 50 cts.

Promiscuous shapes of building and foundation stone sell at 70 to 75 cts. per cu. ft.

GRANITE.—Prices continue without change at 40 to 45 cts. per cu. ft. for promiscuous shapes or run of quarry.

Pink Milford granite is in fair demand and unchanged in price at $1 per cu. ft. for promiscuous shapes.

LIMESTONE.—Prices are unchanged at 85 cts. per cu. ft., delivered alongside of dock, New York. Dressed stone is quoted at $1.25 to $1.50 per cu. ft.

Sandstone in the rough is 80 cts. to $1 per cu. ft.

INTERIOR STONE.—Slate flooring, 1-in. thick, can be had at 20 cts. per sq. ft. for the common or ribbon variety. Clear black sells at 35 to 40 cts., and the same price is asked for Vermont. A combination of slate and marble flooring is 30 cts. per sq. ft.

Marble floor, finished ready to lay, of Vermont marble, is 50 to 70 cts. per sq. ft.; Italian marble, 70 to 90 cts. Tennessee marble can be had at 65 cts. Ordinary stair work, such as slate steps, are quoted at 24 cts. per sq. ft.

CRUSHED STONE, SAND AND GRAVEL.

CRUSHED STONE.—Some sellers report considerable activity at present due probably to a bunching of orders rather than to any marked increase in the demand. For the present deliveries are being made promptly, but it is taxing the facilities of the crushed stone producers.

Prices continue without change as follows: For 1½-in. stone, 85 to 95 cts.; for ¾-in. stone, 90 cts. to $1. Screenings are likewise sold at the same price. These quotations are for full cargo lots of 500 cu. yds. delivered alongside of dock New York City. In Boston the demand is very light on account of lessening operations in building; stone for road work, however, is in good demand. Quotations are unchanged from last month, except for ¾-in. stone which is 5 cts. per net ton cheaper at 85 cts.; 1½-in. stone is 75 cts. and 2½-in. is 65 cts. These prices are f. o. b. quarry.

SAND.—The market continues quiet and there is sufficient sand for sale to satisfy all requirements. For immediate delivery, prices for full cargo lots are unchanged at 25 cts. per cu. yd. and sand has been sold at this figure during the last fortnight. This is for sand in lots of 500 cu. yds. delivered alongside of deep water docks, New York City. For small lots and for delivery in shallow water 35 cts. per yd. is demanded. Delivered in Newark, sand is selling at 36 to 40 cts.

White quartz sand is 60 cts. per cu. yd. and white quartz grit, 75 cts. per cu. yd. All of these prices are for delivery alongside of dock, New York, and for full cargo lots of 500 yds.

In Boston sand sells at 35 cts. per cu. yd., to which is added the freight of about 50 cts.

GRAVEL.—The demand is good and buyers are specifying freely on old contracts.

Prices are unchanged at 75 to 85 cts. per cu. yd., delivered alongside of dock. These prices are for cargo lots of 500 cu. yds.

White quartz roofing gravel is $1.25 to $1.35 per cu. yd.

IRON AND STEEL.

STEEL PRICES CUT.—Judge Gary, Chairman of the Board of Directors of the U. S. Steel Corporation, made the following official announcement:

"Representatives of the leading manufacturers of finished steel (except the Republic) met at luncheon at the Metropolitan Club to-day (May 29) and existing conditions were fully discussed. It was the unanimous opinion that co-operation, as heretofore fully exlpained, should be continued.

"Opinions were expressed that recent developments seem to require some changes in prices. Subsidiary companies of the United States Steel Corporation have decided to make adjustments to become effective June 1, and it is believed that these will be generally followed. The commodities affected, with the new prices, are as follows:

"Steel bars (15 cents per 100 pounds off), $1.25 base.

"Plates and structurals (5 cents per 100 pounds off), $1.35 base.

"Black sheets (20 cents per 100 pounds off), 2 cents per pound for No. 28 gauge.

"Galvanized sheets 3 cents per pound for No. 28 gauge.

"Blue annealed sheets (10 cents per 100 pounds off), $1.50 per pound for No. 10 gauge.

"Steel billets, 4 inches square and larger, $21 per gross ton.

"Sheet bars, $22 per gross ton.

"All free on board Pittsburg, effective June 1, 1911, for shipment prior to October 1.

"The cut on galvanized sheets is the same as on black sheets, 10 cents per 100 pounds; on steel billets and sheet bars the cut is $1 a ton."

PIG IRON.—The market during the month has only been of a routine character and the pressure of unsold iron is weakening prices. The extremely low prices for scrap also have undoubtedly had an influence on pig iron. It would seem as though the present rate of production of iron in this country is about as low as it can be expected to get under present circumstances. The following paragraph, taken from "The Iron Age," is of especial interest at this time: "Thus there is ground for a firm conviction that the irreducible minimum of the country's actual requirements, under present financial conditions, is really quite large, and much larger than is indicated by the low rate of buying of the past few weeks. This must yield eventually, and in the not distant future, to a much larger rate, or the precedents in the whole history of the iron trade will be broken."

Only little complaint is made regarding taking deliveries on contract. In New York City, however, some deliveries have been deferred partially owing to the machinists' strike and partially because of the available storage space.

For lots of 100 gross tons and over, f. o. b. points named, quotations are as follows: Cincinnati, Southern foundry No. 1, $14.25 to $14.75; Southern foundry No. 2, $13.75 to $14.25; Southern foundry No. 4, $13 to $13.50. In Philadelphia, Eastern Pennsylvania No. 2X foundry is $15.50 to $15.75; Eastern Pennsylvania No. 2 plain foundry is $15 to $15.25. In Chicago, Northern foundry No. 2 is $15; Southern foundry No. 2 is $15.35. In Pittsburg, Bessemer iron is $15.90 and basic $14.15. These quotations include the 90c. freight rate from the Valley to Pittsburg. In New York, Northern foundry No. 2X is $15.25 to $15.50; Southern foundry No. 2, $15.25. In Birmingham, Southern foundry No. 2 is quoted at $11 for all deliveries throughout the year and some sales for immediate delivery have been made at slightly lower quotations.

STEEL RAILS.—Several sales have recently been made to railways and every indication points to a probable large business when the steel market becomes settled. Just at this juncture, with the uncertainty regarding prices, few orders are being placed. Among the larger sales noted during the month was 14,000 tons for the Kansas City & Southern; 2,800 tons for the Great Northern; 8,500 tons for the Kansas City, Mexico & Orient, and 5,000 tons of girder rails for the Chicago City Railways. Light rails are in good demand and export business is fairly satisfactory.

All new rails are now quoted in cents per lb., the quotations being as follows for lots of 500 tons and over: Standard sections, 50 to 100-lbs. per yard, 1.25 cts. per lb.; 40 to 45-lbs., 1.16 cts.; 30 to 35-lbs., 1.20 cts.; 16, 20 to 25 lbs., 1.21 cts.; and 12-lb. rails, 1.25 cts. Relaying rails are unchanged in New York, at $20 to $21 per gross ton. In Chicago, standard sections, subject to inspection, are unchanged from last month, at $22 to $23 per gross ton.

TRACK SUPPLIES.—A considerably better demand is noted for all classes of track supplies, including splice bars and spikes. With favorable labor conditions a great deal of track work will be done this year, especially as it was somewhat neglected last year. Quotations are unchanged, at $1.60 per 100 lbs. Pittsburg. In Chicago, prices are likewise without change at $1.65 to $1.70. The extras are unchanged and repeated from last month as follows:

Railroad Spikes.		Cents.
3, 3½, 4, 4½ and 5 × ½	Extra	.10
3½, 4 and 4½ × 7/16	Extra	.20
3, 3½, 4 and 4½ × ⅜	Extra	.30
2½ × ⅜	Extra	.40
2½, 3 and 3½ × 5/16	Extra	.60
2 × 5/16	Extra	.80
Boat Spikes.		
¾ in. square, 12 to 24 in. long	Extra	.15
⅜ in. square, 8 to 16 in. long	Extra	.15
½ in. square, 6 to 16 in. long	Extra	.15
7/16 in. square, 6 to 12 in. long	Extra	.20
⅜ in. square, 4 to 12 in. long	Extra	.30
5/16 in. square, 4 to 8 in. long	Extra	.45
¼ in. square, 4 to 8 in. long	Extra	.75
¼ in. square, 3 to 3½ in. long	Extra	1.00

Track bolts with square nuts are 2.15 to 2.25 cts. per pound base in carload lots, Chicago.

STRUCTURAL STEEL.—The event of greatest importance in the steel market during the month was the cut in the price of steel bars announced May 22 by the Republic Iron & Steel Co. Later, although no official announcement was made, the same

company declared an open market for all its products and sales of small angles and other rolled shapes were made at concessions of $2 to $3 per ton from the regular quotations. There has, for some time, been considerable price cutting by the small concerns, but this declaration brought about an open market. It is true that the Republic Iron & Steel Co. is not an important producer of shapes, rolling none larger than three inches, but other companies have followed and the cut may easily extend to all classes of structural material. No very large business has been booked since this cut was announced, but it is evident that if this cut does not stimulate consumption, further cuts will be made to attract buyers into the market. In the wording of the announcement by the Republic Iron & Steel Co. it was stated that the Board of Directors felt that the company was not getting its fair share of the business. This may be interpreted to mean that Mr. John W. Gates, who is the dominant figure in the Board and at one time a like figure in the American Steel & Wire Co., is going out aggressively after business. He has been especially noted for his spectacular moves and whenever he went out for business he got the orders or made his competitors come to very low terms. A cut of one cent a pound in wire nails in 1900 was due to Mr. Gates feeling that his company was not getting its fair share of business, all of which leads to the belief that the steel war may be carried further, and in many quarters it is felt that the price of steel rails may be reduced. Two factors bear strongly on this, one being the decision early in the year to quote the price of rails in cents per pound rather than in dollars per ton, for every country politician can now repeat offhand the price of rails is $28 and has been that for years. The investigation by Congress might disclose some reason why the price of rails has been so uniformly maintained. In all events, the steel market promises to be most interesting during the coming months.

Prices were reduced $1 per ton May 29. The following quotations are named in cts. per lb., f. o. b. Pittsburg; I-beams and channels, 3 to 15-in., 1.35 to 1.40 cts.; over, 15-in., 1.50 cts.; H-beams, over 8-in., 1.60 cts.; angles, 3 to 6-in., inclusive, 1.45 cts.; angles over 6-in., 1.50 cts.; zees, 3-in. and over, 1.45 cts.; angles, channels and zees under 3 in., 1.45 base and full extras; deck beams and bulb angles, 1.70 cts.; hand rail tees, checkered and corrugated plates, 2.70 cts.

Chicago store prices in cents per lb. are as follows: Angles, 3 to 6-in., 1.75 to 1.90 cts.; over 6-in., 1.85 to 1.95 cts.; I-beams and channels, 1.75 to 1.85. In San Francisco, prices from store continue without change at 2.70 cts. base.

CAST-IRON PIPE.—The market has been more active. Numerous orders have been received, particularly from small municipalities, and there is a great deal of work in prospect. This is true in the East, where many cities and villages are taking precautions against a possible continuation of the present dry spell and are making extensions to their systems. Quotations are firm in spite of a steady decline in pig iron. Prices are as follows:

Birmingham, Ala., 4 to 6-in., $22.50; 8 to 12-in., $22; over 12-in., $21.

Chicago, 4-in., $25.50; 6 to 12-in., $24.50; 16-in., $24.

New York, 6-in., $21 to $22.

San Francisco, 4-in., $35; 6 to 12-in., $34.

Gas pipe is held $1 per ton higher in all markets.

PLATES.—Car orders have been more frequent and the prospects are for quite an increase in the takings of plate by car manufacturers. There has also been a fair business in plates for pipe work, but ship building has been extremely quiet.

Prices were reduced $1 per ton May 29 to 1.35 cts. base for wide plates. Plates ¼-in. thick, 6¼ to 100 ins. wide, 1.35 to 1.40 cts.; ¼ to 3/16-in. thick, 1.45 to 1.50 cts.; 3/16-in. and thinner, including No. 8 gage, 1.50 to 1.60 cts.; Nos. 8, 9 and 10 gage, 1.65 to 1.70 cts. All these prices are per lb., f. o. b. mill. In Chicago store prices are 1.80 to 1.85 cts.

OLD MATERIALS.—The scrap market is in a disorganized state. Buyers of scrap continue to accumulate stock and there appears to be no sale for the product. Some fair business has been transacted in heavy-melting steel scrap, but orders all along the line are spasmodic.

Prices in New York per gross ton are as follows: Heavy-melting steel scrap, $10.50 to $11; No. 1 yard wrought, $10 to $12; No. 1 railroad wrought, $13 to $13.50; pipes and flues, $10.50 to $11; cast borings, $5.50 to $6; machinery cast, broken up, $11.50 to $12; stove plate, $9 to $9.50.

In Chicago conditions are as unsatisfactory as in New York, and there are few actual sales by which to gage quotations. The following prices are more or less nominal: Rerolling rails, $12.50 to $13; heavy-melting steel scrap, $10.25 to $10.75; shoveling steel, $10.25 to $10.75. For such materials as are sold by the net ton quotations are as follows: Miscellaneous railroad wrought, $10 to $11.50; machine shop turnings, $6.25 to $6.75; No. 1 cast scrap, $10.75 to $11.25; pipes and flues, $8 to $8.50; railroad malleable, $10.25 to $10.75; agricultural malleable, $9.25 to $9.75.

In Pittsburg the leading consumers have a large tonnage due them on old contracts and they are not specifying very freely on this tonnage. Quotations per gross ton are as follows: Re-rolling rails, $13.50 to $13.75; No. 1 foundry cast, $13.50 to $13.75; No. 2 foundry cast, $12.50 to $12.75; old grate bars, $10.50 to $10.75; car wheels, $13.50 to $13.75; bundled steel scrap, $9 to $9.25.

RIVETS.—Conditions are unchanged and base prices are 1.85 to 1.90 cts.

Structural rivets, ¾-in. and larger, 1.90 cts. base; cone head boiler rivets, ¾-in. and larger, 2 cts. base; ⅝-in. and 11/16-in. take an advance of 15 cts. and ½-in. and 9/16-in. take an advance of 50 cts. Lengths shorter than 1-in. also take an advance of 50 cts. Terms are 30 days, net cash, f. o. b. mill.

ROOFING, CORRUGATED.—The demand continues light with keen competition for orders.

Prices are unchanged, and per 100 sq. ft. of roof surface are as follows: Carloads, Pittsburg, No. 28 painted, $1.55; No. 28 galvanized, $2.75. From store, New York, No. 24 painted, $3.60; No. 24 galvanized, $4.50; No. 26 painted, $2.75; No. 26 galvanized, $3.75; No. 28 painted, $2.40; No. 28 galvanized, $3.50.

STEEL CASTINGS.—Prices continue without change. Open hearth steel castings, weighing from 100 to 500 lbs., are 3½ to 5 cts. per lb. Crucible castings, weighing from 100 to 500 lbs., are 7½ to 9 cts. per lb.

CASTINGS, GRAY IRON.—The volume of business continues below normal. Building castings are to be had 1.62½ to 2 cts. per lb. depending on the size of the order and shape of the casting. Stair work is 2 to 2.50 cts. per lb. Rough castings, such as foundation pieces, sewer work, and similar heavy pieces, are 1.50 to 1.75 cts. per lb.

FREIGHT RATES.—The freight rates, on finished steel products, from the Pittsburg district, including plates, structural shapes merchant steel and iron bars, pipe, fittings, plain and galvanized wire, nails, rivets, spikes and bolts (in kegs), black sheets (except planished), chain, etc., are as follows, in cts., per lb.: Albany, 16; Buffalo, 11; Boston, 18, Baltimore, 14½; Canadaigua, 13½; Cleveland, 10; Columbus, 12; Cincinnati, 15; Chicago, 18; Denver, Colo., 85½; Harrisburg, 14½; Louisville, 18; New York, 16; Norfolk, 20; Philadelphia, 15; Rochester, 11½; Richmond, 20; Scranton, 15; St. Louis, 23; Washington, 14½.

SHEETS.—The reduction in iron and steel prices announced May 29 was most drastic in the sheet line. The reduction being $1 per ton. Quotations f. o. b. Pittsburg, are as follows:

	Cts. per lb. Black.	Galvanized.
Nos. 10 and 11	1.65	2.00
Nos. 12, 13 and 14	1.70	2.10
Nos. 15, 16 and 17	1.75	2.25
Nos. 18, 19, 20 and 21	1.90	2.40
No. 22	1.85	2.40
Nos. 23 and 24	1.85	2.50
Nos. 25 and 26	1.95	2.70
No. 27	2.00	2.85
No. 28	2.00	3.00
No. 29	2.05	3.10
No. 30	2.05	3.30

Store prices Chicago are as follows:

	Cts. per lb. Black.	Galvanized.
No. 10	2.20	2.75 (Nos. 10–14)
No. 12	2.20	
No. 14	2.25	
No. 16	2.35	2.85
Nos. 18 to 22	2.50	3.00
No. 24	2.55	3.10
No. 26	2.65	3.30
No. 27	2.75	3.45
No. 28	2.95	3.60
No. 30	3.15	4.05

MERCHANT PIPE.—In no part of the iron and steel industry is there any better business reported than in any other line. In a recent week orders were taken for 100 miles of 8-in. pipe for Mexico, 22 miles of 8-in. gas pipe and 14 miles of 12, 10 and 8-in. pipe. The demand for small sizes is also excellent.

Discounts are unchanged as follows:

	Black.	Galvanized.
¾ to 1½-in. Butt weld	79	69
2-in. Lap weld	76	66
2½ to 4-in. Lap weld	78	66
4½ to 6-in. Lap weld	77	67
7 to 12-in.	75	59

At these discounts the net prices of pipe per ft. are as follows:

	Steel Pipe in Cts. per ft. f. o. b. Mill — Black.	Galv.
¾-inch	2.43	3.58
1 -inch	3.47	5.12
1¼-inch	4.74	7.00
1½-inch	5.69	8.35
2 -inch	8.65	12.20
2½-inch	12.70	19.80
3 -inch	16.60	25.60
4 -inch	23.70	36.70
5 -inch	33.40	48.00
6 -inch	43.20	62.00
7 -inch	54.00	78.00
8 -inch	65.00	93.00
9 -inch	78.00	112.00
10 -inch	92.00	132.00
11 -inch	104.00	149.00
12 -inch	114.00	162.00

BARS AND MERCHANT SHAPES.—The cut in the price of bars by the Republic Iron & Steel Co. brought no large volume of business. Consumers are waiting to see whether the bottom has been reached or not.

Revised quotations on bars from store New York are as follows:

	Cts. per lb.
Refined Iron:	
1 to 1⅞-in. round and square	1.60
1½ to 4-in. × ⅜ to 1-in.	1.60
1½ to 4-in. × ¼ to 5/16	1.70
Rods—⅝ & 11/16 round & square	1.70
Angles:	
3-in. × ¼-in. and larger	2.00
3-in. × 3/16-in. and ⅛-in.	2.10
1½ to 2½-in. × ⅛-in.	2.10
1½ to 2¾-in. × 3/16-in. & thicker	1.85
1 to 1¼ × 3/16-in.	1.95
⅞ × ⅛-in.	2.15
¾ × ⅛-in.	2.25
⅝ × ⅛-in.	3.30
½ × 3/32-in.	4.10
Tees:	
1-in.	2.50
1¼-in.	2.30
1½ × 2½ × ¼-in.	2.00
1½ × 2½ × 3/16	2.20
3-in. and larger	2.00
Beams	2.00
Channels, 3-in. and larger	2.00
Bonds—1½ to 6 × 3/16 to No. 8	2.30
Norway bars	3.60
Bessemer Machinery Steel	1.90
Cast steel, base	7.00
Special cast steel, base	14.00 to 15.00

PILING, SHEET STEEL.—Prices are without change at 1.60 cts. per lb., f. o. b. Pittsburg.

LAG SCREWS.—Quotations are without change. Cone point lag screws are sold at a discount of 75 and 10% from list. Net prices are as follows:

	Net price per 100 — ¼-inch.	⅜-inch.	1-inch.
3½-inch	$1.17	$2.40	$5.00
4 -inch	1.25	2.55	5.25
4½-inch	1.33	2.70	5.50
5 -inch	1.40	2.85	5.80
6 -inch	1.58	3.20	6.46
7 -inch	1.73	3.50	7.00
8 -inch	1.82	3.85	7.60
9 -inch	2.05	4.10	8.20
10 -inch	2.25	4.45	8.75
11 -inch	2.40	4.70	8.30
12 -inch	2.60	5.00	9.90

WIRE ROPE.—Prices are unchanged. The discount to the larger trade is 42½ and 5% from list for galvanized, and 50 and 5% from list for bright. The net prices of bright wire rope are as follows:

Diameter. ins.	Price per foot — Cast steel.	Crucible steel.	Plow steel.
2¾	$1.05	$1.24	$1.46
2½	.85	1.05	1.22
2	.57	.65	.76
1¾	.44	.54	.64
1½	.32	.39	.45
1¼	.23	.28	.32
1	.15	.18	.21
¾	.10	.11	.13
⅝	.07	.09	.10
½	.06	.07	.07

TIN PLATE.—An improvement is noted in the volume of business and the mills are now operating to about 75% of capacity. This is principally due to the activity of can makers.

Prices are unchanged from a month ago: Terne plates or tin-plates used for roofing purposes are sold by the box of 112 sheets. Store prices in New York are unchanged as follows: $8.70 per box for 20 × 28-in. I C plates with an 8-lb. coating; plates of the same size with a 15-lb. coating are $10.60; 20-lb. coating, $13.20, and 40-lb. coating, $16.70.

CHAIN.—Prices are unchanged and the following are named for cask lots of 500 lbs. to consumers. The quotations are per 100 lbs., f. o. b. Pittsburg.

Size in ins.	Proof.	BB.	BBB.
3/16	$8.10	$9.35	$9.85
¼	5.55	6.80	7.30
5/16	4.55	5.80	6.30
⅜	4.00	5.25	5.75
7/16	3.70	4.95	5.45
½ and 9/16	3.50	4.75	5.25
⅝	3.40	4.65	5.15
¾	3.30	4.55	5.05
⅞	3.20	4.45	4.95
1	3.10	4.35	4.85
1⅛ and 1½	3.20	4.45	4.95

Prices for hand-made chains are unchanged:

Size in inches.	BBB crane chain.	BBB crane, dredge hoisting or steam shovel hoisting chain.	Special "Warwick" crane, hoisting steam shovel hoisting & dredge hoisting chain.	Special "Trident" crane, steam shovel hoisting & dredge hoisting chain.
⅝	$7.95	$8.20	$9.15	$9.15
¾	7.15	7.45	8.45	8.45
⅞	7.67	6.90	7.90	....
1	6.15	6.40	7.45	....
1⅛	5.75	5.95	6.90	....
1¼	5.65	5.90	6.85	....
1⅜ to 1⅞	5.55	5.75	6.80	....

COKE.—A steady reduction in the output of coke fails to check the downward trend of prices. The output in the Upper and Lower Connellsville region is now about 280,000 tons weekly, compared with 360,000 tons a month ago. Standard makes of Furnace Coke for June shipment can be had at $1.50 to $1.60 and for the last half of the year at $1.75 to $1.85. For 72-hour Foundry coke $1.75 to $2 is quoted for spot shipment and $2.10 to $2.40 for delivery during the remainder of the year. This is a reduction of about 15 cts. compared with a month ago.

SPIRAL RIVETED PIPE.—Prices continue unchanged from the last report. The prices given below are f. o. b. factory, freight equalized with New York City, being figured at a discount of 50, 10 and 10% from list.

They are for orders amounting to about $250. For large orders of several carloads, prices are from 12½% to 20% cheaper.

Diameter in ins.	*Thickness of steel, Birmingham wire gage.	Net price per 100 ft. With bolted joints complete. Plain.	Asphalted.	Galvanized.
3	20	$21.80	$14.21	$20.70
4	18	19.76	21.48	30.74
5	18	23.40	23.70	37.14
6	16	33.05	35.76	49.73
7	16	37.58	40.76	56.82
8	16	43.17	46.80	65.00
9	16	50.06	54.10	74.22
10	14	66.42	71.08	96.15
11	14	71.20	76.57	102.24
12	14	83.75	89.15	118.32
13	14	89.67	96.55	127.98
14	14	99.14	105.51	138.85
15	14	108.05	114.89	151.92
16	14	117.53	124.82	166.58
18	12	167.43	175.95	226.44
20	12	183.79	193.30	248.39
22	12	200.48	210.64	269.21
24	12	219.92	231.07	293.99
26	10	280.26	292.41	370.78
28	10	301.32	314.89	395.37
30	10	324.81	399.15	430.64

*Made in both lighter and heavier gages at corresponding differences in price.

NAILS.—Some improvement is noted in the volume of business and the mills are now operating to between 70 and 80% of capacity.

Prices are without change. Wire nails in Pittsburg are sold at $1.80 base in carload lots to retailers with an advance of 10 cts. for less than carload lots. In New York, wire nails are sold from store [illegible] $2.05 per keg. The makers of cut nails [illegible] advanced prices 5 cts. per keg. Cut [illegible] now held at $1.70 per keg in carlo[ads] [illegible] Pittsburg, and $2.05 per keg from [store] New York. All of these prices are [illegible] lbs.

WIRE.—There is only a mod[erate] [illegible] demand. Quotations are as follows:

Carload lots, to retailers, ann[ealed] [illegible] $1.65; galvanized, $1.95. Galvanized wire to jobbers, $2.10; painted, $1.80. [illegible] prices are f. o. b. mill Pittsburg.

SWEDISH STEEL.—Busine[ss] [illegible] quiet. Prices are without change. Drill [illegible] either round, hexagon or octagon, is 6 [illegible] per lb. for all sizes, ⅝ to 2 ins. For [illegible] to 3 ins., 7 cts. is quoted and 3½ [illegible] is 7½ cts.

Hollow drill rod is held at 12 [illegible] 15 cts. for the imported.

Anvils of Swedish steel are h[eld] [illegible] 9 to 9½ cts. per lb. They weigh fro[m] [illegible] 600 lbs.

SWITCH POINTS.—The follow[ing] [illegible] prices are named, f. o. b. mill, for sw[itch] points in lots of ten or more pair: For [illegible] rail, 10-ft. points, $16.25; 15-ft. points, [illegible] for 70-lb rail; 10-ft. points, $18; 15 [illegible] points, $25; for 80-lb. rail, 10-ft. poin[ts] [illegible] $25.50; 15-ft. points, $27.75; for 90-lb. [illegible] 15-ft. points, $30.50; for 100-lb. rail, $ [illegible] All of the above are furnished with [illegible] rods except the 10-ft. points for 60 or 7[0]-[lb.] rail, which have only two.

BOLTS.—Prices are without cha[nge]. The discount on common carriage bol[ts] [illegible] the retail trade and large consumers [illegible] and 7½% from list, on bolts ⅜ × 6 [illegible] and smaller. The lowest price is 65 and [illegible] discount for larger and longer bolts. N[et] prices are as follows:

Length in inches.	Diameter in [inches] — Net price per [100] — ⅜	½	¾
4	$0.74	$1.22	$2.86
5	0.83	1.36	3.15
6	0.92	1.52	3.50
7	1.22	1.65	3.75
8	1.34	1.80	4.25
9	1.45	1.95	4.50
10	1.55	2.20	4.75
12	1.75	2.40	5.25
14	1.90	2.70	5.50
15	2.05	2.85	6.25
18	2.40	3.25	7.20
20	2.60	3.50	7.75

FROGS.—For mill shipments of te[n] or more, prices are as follows: Bolted frogs, No. 7, for 60-lb. rail, $15; for 70-lb. rail, $16.50; for 80-lb. rail, $18; No. 8 frogs for 90-lb. rail, $21; for 100-lb. rail, $23. Plate frogs, No. 7, riveted to ⅝-in. plate for 60-lb. rail, $18; for 70-lb. rail, $20; for 80-lb. rail, $21.50. No. 8 frogs bolted to a ¾-in. plate for 90-lb. rail are $25.50; for 100-lb. rail $27.50.

REINFORCING MATERIAL.

TRIANGULAR MESH.—The demand is only fair.

The following quotations are for the lots of the size named, f. o. b. mill in Pittsburg district:

Style No.	Cross sec. area per ft. width.	Price per 100 sq. ft. — Carload lots.	Less than carloads and more than 10,000 sq. ft.
4	.102	$1.03	$1.25
5	.077	.82	[illegible]
6	.058	.65	.78
7	.041	.50	.61
23	.170	1.73	2.08
24	.142	1.48	1.80
25	.124	1.32	1.60
26	.110	1.20	1.45
27	.085	.98	1.19
28	.066	.81	.98
29	.049	.67	.81
31	.261	2.55	3.08
32	.225	2.20	2.67
33	.196	1.96	2.38
34	.146	1.51	1.82
35	.109	1.20	1.45
36	.075	.89	1.07
38	.380	3.62	4.38
39	.325	3.12	3.77
40	.283	2.74	3.30
41	.208	2.08	2.52
42	.151	1.58	1.92
43	.101	1.13	1.36

This material is made in regular widths of 18, 22, 26, 30, 34, 42, 46, 50, 54 and 58 ins. Standard lengths of rolls are 150, 300 and 600 ft. Cutting to special length is charged extra.

BARS, CONCRETE REINFORCING.—The price of steel bars was cut May 22 to 1.25 cts. base Pittsburg. At this price the quotation for bars would be as follows for carload lots f. o. b. Pittsburg:

	Cts. per lb. — Plain.	*Deformed
¾-inch and larger	1.25 to 1.35	1.30 to 1.40
⅝-inch	1.30 to 1.40	1.35 to 1.45
½-inch	1.35 to 1.45	1.40 to 1.50
⅜-inch	1.50 to 1.60	1.55 to 1.65
¼-inch	1.75 to 1.85	1.80 to 1.90

Bar from stock Pittsburg are usually cut to the required length without extra charge. Prices per lb. are as follows:

	Cts. per lb. — Plain.	*Deformed
¾-inch and larger	1.45 to 1.55	1.55 to 1.65
⅝-inch	1.50 to 1.60	1.60 to 1.70
½-inch	1.55 to 1.65	1.65 to 1.75
⅜-inch	1.70 to 1.80	1.80 to 1.90
¼-inch	1.95 to 2.05	2.05 to 2.15

*The price of deformed bars varied according to the shape and some are held much higher than these prices.

INTERLOCKING PLATES.—For interlocking steel plates, of 24 gage black steel f. o. b. mill Central Ohio, the following prices are named:

Length.	Per 100 sq. ft. Weight.	Price. Flat Sheets.
Under 4 ft.	100 lbs.	$11.00
4 to 6 ft.	160 lbs.	10.00
6 to 8 ft.	160 lbs.	9.50
8 to 10 ft.	160 lbs.	9.00
10 ft.	160 lbs.	8.50

Curved sheets are held at an advance of $1 per 100 sq. ft. over flat.

EXPANDED LATH.—Prices are unchanged. The prices for carload lots given below are f. o. b. Central Ohio:

Carload Lots. Price in cts. per sq. yd.

Gage.	Weight per sq. yd.	Black.	Painted.	Galvanized.
27	2¼ lbs.	11½	12¼	17½
26	2½ lbs.	12½	13¼	18½
25	2 lbs.	13½	14¼	19½
24	3.4 lbs.	14½	15¼	20½

Small Lots from New York Store.

Prices in cents per sq. yd.

27	13	13¾	19
26	14	14¾	20
25	15	15¾	21
24	16	16¾	22

This lath is packed 9 sheets to the bundle.

DIAMOND LATH FROM STORE.

Designation.	Gage.	Weight per sq. yd.	Price. Per sq. yd. Black, cts.
A	24	4 lbs.	20
A Special	24	4 lbs.	18
B	27	2.9 lbs.	16½
B Special	27	2.9 lbs.	15
B B	27	2.33 lbs.	14
Square Twist	24	4 lbs.	20
Diamond No. 24	..	3.75 lbs.	20
" No. 24 Special	..	3 lbs.	16½
" No. 26	..	2.66 lbs.	16½
" No. 26 Special	..	2.1 lbs.	14
Square Twist No. 27.	..	2.75 lbs.	14½

EXPANDED METAL.—Quotations are without change as follows:

Mesh.	Gage-stubbs.	Designation.	Weight per sq. ft.	Sectional area per ft. width.	Price per sq. ft. in cts. Carload.	10,000 sq. ft. to carload.
½-in.	18	Standard	.74	.209	3.71	4.04
¾-in.	13	Standard	.80	.225	3.69	4.03
1½-in.	12	Standard	.70	.207	3.43	3.76
2 -in.	12	Standard	.56	.166	3.20	3.48
3 -in.	13	Standard	.28	.087	1.32	1.44
3 -in.	10	Light	.50	.148	1.55	1.69
3 -in.	10	Standard	.60	.178	1.80	1.97
3 -in.	10	Heavy	.90	.267	2.46	2.69
3 -in.	10	Ex. heavy	1.20	.376	3.18	3.47
3 -in.	6	Standard	1.38	.400	3.85	4.20
3 -in.	6	Heavy	2.07	.600	5.64	6.16
4 -in.	16	Old style	.42	.093	1.78	1.94
6 -in.	4	Standard	.84	.245	2.42	2.64
6 -in.	4	Heavy	1.26	.368	3.38	3.68

discount. These are without change from last month, except for 27 and 30-in.

At these discounts, the net prices per ft. for carload lots f. o. b. factory, are as follows:

3-in.	$0.032
4-in.	.04
5-in.	.048
6-in.	.064
8-in.	.087
10-in.	.128
12-in.	.16
15-in.	.215
18-in.	.30
20-in.	.36
21-in.	.43
22-in.	.48
24-in.	.52
27-in.	1.09
30-in.	1.22
33-in.	1.78
36-in.	2.04

MILL SUPPLIES.

SHAFTING.—New business is light and the specifications received on old contracts are likewise few.

Discounts are unchanged from last month, at 57% off list for carload lots. Small lots are obtainable at 52% off, and delivery is allowed in base territory.

The following net prices per ft. are based on the 52% discount: ¾-in., 4 cts.; 1-in., 7 cts.; 1¼-in., 10.90 cts.; 1½-in., 14.20 cts.; 1¾-in., 19.10 cts.; 2-in., 25.50 cts.; 2¼-in., 32.50 cts.; 2½-in., 40 cts.; 2¾-in., 48.50 cts.; 3-in., 58 cts.; 3½-in., 85 cts.; 4-in., $1.08; 4½-in., $1.70; 5-in., $2.26; 5½-in., $2.90; 6-in., $3.70.

BELTING.—There is only a small amount of business being booked. The continued decline in rubber leads to the belief that lower prices may be made on belting, but as yet there has not been enough new business to test the market. Some concessions of about 10% have been made, but the general discounts remain unchanged as follows: best grades, 40%; standard, 40 and 10%; and competition, 60 and 10%. The discounts on leather belting are unchanged as follows: extra heavy, 60%; heavy, 60 and 5%; medium, 70%; light, 70 and 5%; standard, 70 and 10%.

The following net prices per foot of leather belting are computed at the above discounts. The price of rubber belting is, as stated, unchanged from last month, and the prices may be found on page 221 of issue of May 4.

LEATHER BELTING, PRICE PER LB.

Width, ins.	Extra heavy.	Medium.	Standard.
1	$0.095	$0.072	$0.065
1½	.144	.108	.097
2	.192	.144	.12
2½	.24	.18	.162
3	.29	.215	.194
3½	.35	.252	.227
4	.385	.29	.26
5	.48	.36	.325
6	.58	.433	.39
7	.68	.50	.455
8	.77	.58	.52
9	.86	.65	.58
10	.96	.72	.65
11	1.05	.79	.71
12	1.15	.87	.78
14	1.35	1.01	.91
16	1.53	1.15	1.03
18	1.73	1.30	1.17
20	1.93	1.45	1.30
22	2.10	1.58	1.42
24	2.30	1.73	1.55
26	2.50	1.88	1.69
30	2.87	2.16	1.95
36	3.97	2.60	2.34
48	4.62	3.48	3.10

CHAIN BELTING.—Trade is satisfactory. Prices continue unchanged.

From 3 HP. to 10 HP. 30-in. centers complete, with two sprockets, $7 to $8 per HP.; from 10 HP. to 25 HP., 36-in. centers complete, $5 to $6 per HP.; from 25 HP. to 100 HP., 60-in., centers complete, $4 to $5 per HP.; from 100 HP. to 500 HP., 72-in. centers complete, $3 to $4 per HP.

PACKING.—Prices continue without change. The following quotations are for small lots in original packages:

Asbestos wick and rope, 13 cts.; sheet rubber, 11 to 13 cts; pure gum rubber, 40 to 45 cts.; red sheet, 40 to 50 cts. Cotton packing can be had at 16 to 25 cts.; jute at 3¼ to 3½ cts., and Russian at 9 to 10 cts.

LUBRICATING OILS.—Quotations continue without change, the following figures being named for 5-bbl. lots:

	Cts. per gal.
*Cylinder, dark	20 to 27
*Cylinder, steam, refined	14 to 22
Neutral Oils, filtered:	
Stainless white, 32 to 34 gravity.	28 to 29
Lemons, 33 to 34 gravity	17 to 19
Dark, 32 gravity	15 to 18
Crank Cast oil	15 to 17

*Prices are according to test.

CLAY PRODUCTS.

HOLLOW TILE.—The good volume of business which has been noted in this line since the beginning of the year continues; it is especially noticeable in the suburban districts.

The market is firm, and prices continue steady for hollow wall building tile, f. o. b. factory, Perth Amboy, N. J., quotations are as follows:

Size.	Price per block, in cts.
4 × 12 × 12-in.	5.25
6 × 12 × 12-in.	6.6
8 × 12 × 12-in.	8.9
10 × 12 × 12-in.	10.5
12 × 12 × 12-in.	12.1

Fireproofing partition blocks are unchanged as follows:

Size.	Price per block, in cts.
2 × 12 × 12-in.	4.4
3 × 12 × 12-in.	4.4
4 × 12 × 12-in.	5.
6 × 12 × 12-in.	6.6
8 × 12 × 12-in.	8.8

These prices are for what would be considered small orders—approximately carload lots. For quantities which exceed $1,000 worth of material concessions will be made.

DUCT TELEPHONE.—Small lots are sold at 4½ to 5 cts. per duct ft., but considerable concessions are made for desirable orders.

FLUE LINING.—Prices continue without change. The discount from list, f. o. b. mill, is 85%. Delivered in New York, in small lots, they can be had at 78%. Based on a discount of 85% at the mill, net prices are as follows:

	Weight in lbs.	Price per ft.
4½ × 8½-in.	14	$0.04¼
4½ × 13 -in.	20	.068
4½ × 18 -in.	40	.15
6 × 12 -in.	22	.075
7 × 7 -in.	15	.053
8½ × 8½-in.	18	.068
8½ × 13 -in.	28	.098
8½ × 18 -in.	45	.135
12 × 16 -in.	45	.15
13 × 13 -in.	38	.128
13 × 18 -in.	57	.18
14 × 16 -in.	60	.165
16 × 16 -in.	65	.24
16 × 20 -in.	80	.30
18 × 20 -in.	75	.30

ROOFING TILE.—Prices are steady, and continue without change. The best grade of promenade roofing tile in flat blocks for high-grade roofs is sold at $20 per M. for run of kiln, and $30 per M. for selected. A cheaper form of tile with a smooth surface can be had at $10 to $12, but it is not suitable for roof gardens. These prices are for 9 × 9-in. blocks, f. o. b. factory. It requires 258 blocks to lay 100 sq. ft. of roof surface and, in consequence, the price per 100 sq. ft. of roof surface would be $4 to $5 for the smooth blocks; $7.82 for run of the kiln, and $10.73 for the selected.

Vitrified tile, unglazed, of the French or Spanish type, is sold at approximately $8.50 per 100 sq ft. of roof surface, f. o. b. factory. Glass tiles are sold at 60 cts, each. It requires 183 of these for 100 sq. ft. of roofing.

SEWER PIPE.—Prices are higher although the demand shows little, if any, change.

The new discounts applying to the Eastern list are as follows: For all sizes up to and including 24-in., 84% discount; for 27 and 30-in. 76% discount; for 33 and 36-in. 71%

HIGH-SPEED STEEL.—The demand is less than last month. Prices are without change at 50 to 75 cts. per lb.

FIRE HOSE.—Prices of hose are unchanged. The standard grade of underwriters' cotton rubber-lined hose, 2⅝-in. diameter, warranted, 350 lbs. pressure, is sold in 50-ft. lengths, complete with couplings, at 65 cts. per ft. Common hose, 2½-in. diameter, tested to 200 lbs. pressure, is 35 cts. per ft.

COTTON WASTE.—The following prices are named on cotton waste in bales of 100 to 500 lbs:

No. 1 White Picked Cotton Waste, 9¾ cts. per lb. No. 3 is 8⅞ cts. No. 1 Colored, 6½ cts.; No. 3 Colored is 5½ cts.

LUMBER.

The government action in seeking to break up the lumber dealers' associations has had no effect on prices. The fact that all classes of the supply business have their "associations," "clubs," "noonday meetings," and various other social and business organizations means that the entire business fabric of the country may have to be reconstructed. The trouble is not so much with the associations themselves as by their operation they tend to keep incompetent men in business.

CROSS TIES.—The following prices, quoted f. o. b. New York, by G. S. Baxter Co., 15 William St., New York City, are unchanged from last month, as follows:

	Cents each.
7 × 9-in. by 8 ft. 6-in.	75
6 × 9-in. by 8 ft. ....nominal	72
6 × 8-in. by 8 ft.	67

Second-class, sound and square edge, are quoted as follows:

	Cents each.
7 × 9-in. by 8 ft.	61
6 × 9-in. by 8 ft. ....nominal	51
6 × 8-in. by 8 ft. ....nominal	45

HEMLOCK.—Prices are unchanged, and delivered in New York, hemlock from Pennsylvania can be had at $20.50 to $21; from West Virginia, the quotation is $20 to $20.50.

The following prices are ruling in New York, and are 50 cts. lower than a month ago:

Price Per Thousand, f. o. b. cars, New York.

Size.	Length 10 ft.	12 ft.	14 ft.	16 ft.
2 × 4-in.	$22.50	$20.50	$20.50	$22.50
2 × 6-in. to 2 × 10-in.	20.50	20.50	20.50	17.50 to 18.50
3 × 4-in. to 12 × 12-in	21.00	21.00	21.50	18.50 to 19.50
1 × 8-in.	....	17.50	17.50	17.50
1 × 10-in. and 1 × 12-in	....	18.00	18.00	18.00

LONG LEAF YELLOW PINE.—The demand is only fair. Prices continue unchanged and for delivery from yard in New York and vicinity, for material classed as "Merchandise" under the 1905 rules of the Association, prices are as follows:

Prices Per Thousand Feet in Yard, New York.

	Length 20 ft. base,	21 to 25 ft.	26 to 30 ft.	31 to 35 ft.
2 in. wide and under by 8 in. thick and under	$31	$32	$33	$34
10 in. wide by 10 in. thick and under	33	34	35	36
12 in wide by 12 in. thick and under	36	37	38	39
14 in. wide by 14 in. thick and under	43	44	46	46
16 in. wide by 16 in. thick and under	45	46	47	48

For pieces longer than 35 ft. and less than 40 ft., add from $4 to $8 to base price.

LATH.—The price of lath is without change from a month ago in Boston; 1⅝-in. sells at $3.70 to $3.75 and 1½-in. at $3.40 to $3.50.

SPRUCE.—The lack of sufficient water to drive logs in the Maine rivers is causing a shortage of logs. The demand, however, is so limited that it has had little or no effect on prices. In Boston the following are the wholesale prices:

	Per Thousand.
9-in., and under	$23.50 to $24.00
10 to 12-in.	23.50 to 24.00
2 × 4-in. random	20.00
2 × 6-in. random	19.50 to 20.00
2 × 8-in.	21.50 to 22.00
2 × 10-in.	22.50 to 23.50
2 × 12-in.	22.50 to 23.50

OILS AND PAINTS.

PETROLEUM PRODUCTS.—There is a fair demand for all kinds of petroleum products. The Standard Oil Co. quote the prices of crude oil in bbls. at the wells as follows: Pennsylvania, Second Sand, and Tiona, $1.30; Mercer black is 87 cts.; Corning, 77 cts.; New Castle, 84 cts.; Illinois, 60 cts.; Illinois heavy, below 30 gravity, 52 cts.; Kansas heavy, 30 cts.

In the New York market petroleum from tank wagon is unchanged at 6 cts. per gal.

Auto naphtha is unchanged at 13¼ cts., but stove gasoline is 1 ct. per gal. lower, at 12¾ cts.

Fuel oil is 90 cts. to $1 per bbl.

LINSEED OIL.—The buying has been less and the demand is only fair. It is expected that prices will decline when a new crop of flaxseed is harvested. The price of flaxseed for future delivery has dropped more than 50 cts. a bus., October option being quoted at $1.90 a bus., compared with $2.47, price for flaxseed in Duluth.

Raw linseed oil is now selling at 92 to 93 cts. per gal., in 5 bbl. lots. Boiled oil is held at an advance of 1 ct. per gal. over raw.

SPIRITS OF TURPENTINE.—The market has again declined and turpentine is now selling at 62½ to 63½ cts., New York compared with 78 cts. a month ago and $1.10 two months ago. There seems to be plenty of turpentine available at these quotations, but consumers are buying only sparingly. In Charleston, S. C., turpentine is 58½ to 59 cts.; in Savannah, Ga., 58½ to 59 cts.

PAINTS.—Prices of white lead in oil are unchanged. For lots of 500 lbs. or over, in 250 to 500-lb. kegs, 7½ cts. per lb. is quoted; in 25 and 50-lb. kegs, 7¾ cts. is quoted. Red lead and litharge in bbls., half bbls. and 100-lb. kegs, is 8 cts. per lb.

Graphite paint is moving slowly. The best grades of graphite paint in linseed oil can be purchased at $1.40 per gal.

Hydrox preservative paint is 75 cts. per gal. in bbl. lots, New York City.

Colors in oil are quoted at the following prices per lb.: Lamp black, 12 to 14 cts.; Chinese blue, 36 to 46 cts.; Prussian blue, 32 to 36 cts.; Van Dyke brown, 11 to 14 cts.; Chrome green, 12 to 16 cts.; Raw or Burnt Sienna, 12 to 15 cts.; Raw or Burnt Umber, 11 to 14 cts.

LINE CONSTRUCTION.

ALUMINUM WIRE.—The demand is limited and prices are without change at 31 cts. base.

POLES.—Cedar poles are quoted as follows by the R. D. Dowie Pole Co., New York Block, Seattle, Wash. The price is f. o. b. loading point:

Length in ft.	Diameter at top. 8-in.	9-in.
30	$2.70	....
35	3.15	$3.50
40	3.60	4.00
45	...	4.50
50	...	5.00
55	...	5.50
60	...	7.20
65	...	9.75
70	...	10.50
75	...	11.25
80	...	12.00

The prices of 30 and 35-ft. poles with a 7-in. top are 25 cts. higher. Otherwise chestnut poles, f. o. b. Mechanicsville, N. Y., are quoted by T. C. Luther of that place as follows:

Length in feet.	Price each. Diameter at top. 5-in.	6-in.	7-in.
25	$1.50	$2.00	$2.75
30	2.50	2.75	3.50
35	2.75	3.25	4.25
40	3.25	4.00	5.50
45	4.00	5.50	7.50
50	5.50	7.50	9.50

FIR CROSS ARMS.—Prices are unchanged as follows.

Length. Size, 3¼ × 4¼-in.	Price per arm in cts. Pacific Coast	Chicago,	New York
3 ft., 2-pin	8	13½	15½
4 ft., 2-pin	11	18½	21
5 ft., 4-pin	16	26½	28½
6 ft., 4 and 6-pin	20½	31½	36
8 ft., 6 and 8-pin	28	43	48½
10 ft., 8, 10 and 12-pin	37	55½	67½

TELEGRAPH WIRE.—For lots of fair size, the wire measured in Birmingham wire gage, the prices in cts. per lb. are as follows: "Extra Best Best," Nos. 6 to 9, 4⅜ cts.; Nos. 10 and 11, 4½ cts.; No. 12, 4⅝ cts.; No. 14, 5⅛ cts. "Best Best," Nos. 6 to 9, 3½ cts.; Nos. 10 and 11, 3⅝ cts.; No. 12, 3½ cts.; No. 14, 4 cts. Actual freight is allowed from Trenton, N. J., where it does not exceed 25 cts. per 100 lbs.

INSULATORS.—Prices are without change. Glass insulators in lots of more than 1,000 and less than 10,000 are sold at the following prices per 1,000: Double petticoat, 20 oz., $33; Western Union, $30.25; No. 2 cable $53.90; No. 4 cable, $210; Muncie type, 7-in., $236.50; No. 3 triple petticoat, 4½-in., $90.75.

COPPER WIRE.—The satisfactory business which has been observed for several months continues. Much wire has been sold to both telegraph and telephone companies and trolley companies have purchased large lots. It is significant to note that the manufacturers of electrical machinery are doing a very large business. Prices are slightly higher at 13¼ to 13½ cts.

CHEMICALS.

	Cts. per lb.
Nitric acid, 30°	3.87½ to 4.25
Nitric acid, 40°	4.50 to 4.87½
Sulphuric, 60°	0.90 to 1.00
Sulphuric, 66°	1.00 to 1.25
Sal Ammoniac, lump	9.25 to 9.75
Sal Ammoniac, granulated	5.87½ to 6.00
Sal Ammoniac, gray	6.00 to 6.25
Sulphur, roll	1.85 to 2.15
Sulphur, flour	2.00 to 2.40
Sulphur, flowers	2.20 to 2.60
	Per gallon.
Alcohol, grain, U. S. proof	$2.58 to $2.60
Alcohol, denatured, 5-bbl. lots	.41 to .42
Alcohol, denatured, ½-bbls.	.46 to .47
Alcohol, wood, 95 to 97	.52 to .57
Alcohol, wood, purified	.80 to ..

METALS.

COPPER.—The price of copper declined to its low level of last month and again there was a heavy business. Consumers bought large quantities of metal both for immediate consumption and for future delivery. With the buying movement this month there was more animation and consumers followed the market up, a decided contrast to the April buying. It is evident that consumption is more nearly equal to production than in a long time. At the same time, evidences are multiplying that the porphyry properties, while they can supply copper at a low cost, have heavy overhead charges and are not in a position to sell much lower than some of

the old-line companies. Another factor, which has an important bearing on the situation, is that there have been few important projects for copper mining development during the last three years and the production in 1912 will be only slightly larger than that of 1911. At the same time, consumption has been stimulated by the low prices and it is confidently believed that an equilibrium will be established between consumption and production early in 1912, or perhaps even sooner, that will bring the price of copper back to a higher level. In the metal trade there has been a saying that two pounds of copper would buy one pound of tin. For nearly three years, however, this has been impossible. A large part of the copper purchased recently has been for the wire drawing interest, and it is evident that they will be in the market again in the near future. Electrolytic copper is now selling at 12.12½ cts. New York, and Lake at 12.37½ cts.

LEAD.—The market continues exceedingly dull, sales being made by the independent producers at 4.37½ cts. New York and 4.22½ cts. St. Louis. The American Smelting & Refining Co. continues to quote 4.50 cts. New York for shipment lead in 50-ton lots and apparently are making no active bid for business.

	Per lb.
Sheet Lead:	
Large lots	6.25 cts.
Small lots	6.75 cts.
Lead Pipe:	
Large lots	5.75 cts.
Small lots	6.40 cts.

MISCELLANEOUS METALS.—Small lots of metal and metal products can be obtained from jobbers' stores, New York, at the following prices:

	Per lb.
Bismuth	$2.25
Brass tubes, iron pipe sizes:	
½-in.	.19
¾ to 3-in.	.18
3½-in.	.19
4-in.	.20
Brass, sheets	.14¼
Brass, rods	.14¼
Solder, ½ and ½ guaranteed	.27½
Zinc, sheets	.08½
Manganese bronze rods	.16
Manganese bronze in crucible form	.14
Monel metal, ingot	.16

OLD METALS.—Miscellaneous lots of scrap metal, amounting to about a ton, can be sold to dealers in New York at about the following prices:

	Cents.
Copper, heavy and crucible	10.75 to 11.00
Copper, heavy and wire	10.50 to 10.75
Copper, light and bottoms	9.50 to 9.75
Brass, heavy	7.00 to 7.25
Brass, light	5.50 to 5.75
Heavy machine composition	9.25 to 9.50
Clean brass turnings	7.00 to 7.25
Composition turnings	8.25 to 8.50
Lead, heavy	3.75
Lead, tea	3.50
Zinc, scrap	4.00

SPELTER.—There is a dearth of supplies in New York, but prices are weak, spelter selling at 5.55 cts. New York and 5.20 cts. St. Louis.

TIN.—There has been a rapid advance in the price of spot tin in London, which, however, has not fully reflected on this side. The price did reach a new high level for the year and sales were made at 44.50 cts. Tin for immediate delivery is held at a premium of about 3 cts. per lb. over future delivery. Stocks in New York are not large and the imports during May were only 2,600 tons, which means that stocks were drawn on during that month.

MISCELLANEOUS.

ROOFING SLATE.—There is no especial activity, and prices continue without change. Quotations are named per "square" or 100 sq. ft. of roof surface in carload lots of the sizes in most general use, f. o. b. quarry station:

	Price per 100 sq. ft.
Vermont, sea green	$3.50 to $4.10
Pennsylvania, Bangor Ribbon	3.50 to 4.00
Maine, Brownsville No. 1	5.00 to 7.75
Maine, Brownsville No. 2	4.50 to 6.00
No. 1 Red	10.50 to 12.00
Unfading green	4.00 to 5.50
Genuine Bangor	4.00 to 6.50
Pen Argyle	4.00 to 5.50

ROPE.—The market is steady, but the demand is small. Prices are without change.: Pure Manila is 8½ to 9 cts. per lb.; second grade, 7½ to 8 cts.; hardware grades, 7 to 7½ cts. per lb. Pure Sisal is 6¼ cts. for the highest grades, and 6 cts. for less desirable grades. Jute rope in commercial sizes is 6 to 6½ cts. per lb.

WATERPROOFING.—The prices for carload lots, f. o. b. cars New York, are as follows: Hydrex waterproofing felt, $1.25 per 100 sq. ft.; Hydrex compound "A," 26 cts. per gal; Hydrex compound "B," 18 cts. per gallon.

Texaco waterproofing cement is $30 per ton in car lots, f. o. b. cars New York or Philadelphia.

Asphaltum for waterproofing is sold at $25 to $27 per net ton.

Glidden, graphite acid proof coating is sold at $1.25 per gal. in bbl. and ½ bbls., and $1.40 per gal. in 5-gal cans. These prices are f. o. b. Cleveland or for delivery from warehouse, New York, Chicago, St. Louis, Boston or Atlanta.

Portland cement waterproofing by the McCormick Process is sold by the makers, McCormick Portland Cement Co., at 7 cts. per lb., delivered at the nearest railroad station, subject to the following discounts: Less than ton lots, 2%; less than five tons, 5%; less than ten tons, 5 and 2%; less than 20 tons, 5 and 5%; less than 30 tons, 5 and 7½%.

ROOFING CEMENT.—Prices are unchanged at $25 per ton for Texaco.

ASBESTOS.—Asbestos building felt and sheathing in less than ton lots is 3¼ cts. per lb. for the light, weighing from 6 to 30 lbs. per 100 sq. ft.; 4 cts. per lb. is charged for the heavy, weighing from 45 to 56 lbs. per 100 sq. ft.

Millboard is made in standard sheets, 40 × 40 ins., and 41 × 40 ins. It varies in thickness from 1/32 to ½-in. and in weight from 2 to 27 lbs. per sheet. The net price in 100 lb. lots is 5 cts. per lb.

Transite, asbestos wood, used for fireproofing, ventilators and smoke jacks, comes in standard sheets, 36 × 48 ins., 42 × 48 ins., and 42 × 96 ins. The prices, f. o. b. factory, Nassau, N. H., are as follows:

Thickness.	Weight.	Price.
⅛-inch	1 lb.	$0.08
3/16-inch	1½ lbs.	.12
¼-inch	2 lbs.	.16
5/16-inch	2½ lbs.	.20
⅜-inch	3 lbs.	.28
7/16-inch	3½ lbs.	.28
½-inch	5 lbs.	.32
9/16-inch	4½ lbs.	.36
⅝-inch	5 lbs.	.40
¾-inch	6 lbs.	.44
⅞-inch	7 lbs.	.48
1 -inch	8 lbs.	.52
1¼-inch	10 lbs.	.56
1½-inch	12 lbs.	.64
1¾-inch	16 lbs.	.72
2 -inch	16 lbs.	.80

EXPLOSIVES.—Dynamite of the kind usually used by contractors is approximately 11 to 13 cts. per lb., f. o. b. factory, in ton lots. Blasting powder, classified as "soda" grade, is sold at $1.20 to $1.40 per keg of 25 lbs. in lots of 10,000 lbs. The following prices prevail on Trojan in carload lots, minimum 24,000 lbs., f. o. b. Pacific Coast points: No. 1, 13½ cts.; No. 2, 10½ cts.; No. 3, 10 cts. They have a disruptive force equivalent to 60%, 40% and 30% of nitroglycerine.

Exploders, per hundred, are sold at the following prices: 4 ft., $3.60; 6 ft., $4.10; 8 ft., $4.60; 10 ft., $5.10; 12 ft., $5.60; 16 ft., $6.60; 20 ft., $7.50; 20 ft., $9.40; 30 ft., $12; 36 ft., $14.60.

Caps in lots of 10,000 are $7 to $8 per thousand.

Blasting machines for 10 holes are $12; 25 holes, $20; 50 holes, $40; 100 holes, $60.

PAPER.—Prices are without change from last month, as follows:

Tarred Paper:	Per roll of 108 sq. ft.
Standard, 2-ply, 40 lbs.	$0.45
Extra heavy, 2-ply, 45 lbs.	.55
Standard, 3-ply, 60 lbs.	.65
Extra heavy, 3-ply, 70 lbs.	.75

Rosin, Sized Sheathing:	Per roll of 500 sq. ft.
Light, 35 lbs.	$0.38
Medium, 30 lbs.	.45
Heavy, 40 lbs.	.60

LIGHTERAGE LIMITS.—[illegible] free delivery or "Lighterage Limits" [illegible] New York City are as follows: In Manh[illegible] from a point opposite the Fort Lee [illegible] south along the Hudson River aroun[illegible] Battery and north along the East an[illegible]em Rivers to the Jerome Ave. Bridge a[illegible] St. In New Jersey, south from Fort L[illegible] to Bayonne City, points on the north [illegible]ast shore at Staten Island, between [illegible] Creek (Arlington) and Clifton, both [illegible]ve, and including Elm Park, Eris[illegible] Shooters Island. In Brooklyn, fr[illegible] St., Bay Ridge, north to Port Co[illegible]oria, Long Island City.

RUBBER.—The price o[illegible]er dropped to practically the lowest [illegible] of the year during the last fortnight, [illegible]les in New York or Up-River Para, fin[illegible] been made as low as $1.01. The mark[illegible] now quoted at $1.04 to $1.06. There [illegible] enormous stock of unsold rubber in [illegible] and there has been considerable agita[illegible] regarding a valorization scheme by the [illegible]ernment of Brazil to force the price o[illegible]ber up, as was done with the price of [illegible]. Such a scheme, perhaps, may be [illegible] out, and would, of course, have an [illegible]diate effect on the rubber market, and [illegible], undoubtedly, make for higher quo[illegible]s. In the long run, however, it is do[illegible]ul whether any such scheme would ben[illegible] the rubber producers. The fact that pl[illegible]ion rubber has been used so successfully [illegible]ompetition with Para leads to the belief [illegible] the abnormal rise of last year may no[illegible]ve been an unmixed evil. In the accomp[illegible]ng table is shown the high and low pric[illegible] of Up-River Para fine rubber in New York [illegible] a series of years. It may be noted th[illegible] the prevailing low prices are about on the [illegible] average as the low prices have been [illegible] the last decade, or since the extensive [illegible] of automobile tires. Up-River Para, [illegible]arse, is 84 to 86 cts.; Caucho ball is 87½ [illegible] and Guayula is 50 cts.

Year.	High.	Low.
1911*	$1.70	$1.04
1910	3.10	1.44
1909	2.[illegible]	1.28
1908	1.30	.69
1907	1.27	.82
1906	1.30	1.24
1905	1.40	1.23
1904	1.3[illegible]	1.00
1903	1.13	.91
1902	.98	.81
1901	.87	.66
1900	1.16	1.00
1899	1.16	1.04
1898	1.10	.90
1897	.91	.84
1896	.91	.78
1895	.84	.74
1894	.74	.66
1893	.84	.74
1892	.68	.60
1891	.87	.66
1890	1.00	.72

*To date.

For other Proposal Advertisements see pages 49, 50, 52, 53, 54, 56 of Advertisements and Construction News, page 270

ARCH BRIDGE.

Kutztown, Pa.

Proposals will be received at the County Controller's office at Reading, Pa., up to 10 o'clock a. m., June 20th, 1911, for the erection of a reinforced concrete arch bridge at Kutztown, Pa. The specifications include the removal of the iron truss bridge at present on the site, and the re-erection of the same at a point about a half mile from the present location. Plans and specifications can be had at the County Commissioners' office at Reading, Pa., upon payment of five dollars which will be refunded when the same are returned.

All bids must be accompanied with a certified check equal to 10% of the aggregate amount of the bid. The right is reserved to reject any or all bids.

A. L. RHOADS,
County Controller.

STEEL PIPE.

Toronto, Ont.

Tenders will be received by registered post only, addressed to the Chairman of the Board of Control, City Hall, up to noon on Tuesday, June 20th, 1911, for the laying of between three thousand and three thousand five hundred feet of riveted steel pipe, six feet in diameter, in Lake Ontario for the Water Works Department.

Envelopes containing tenders must be plainly marked on the outside as to contents.

Specifications and forms of tender may be obtained at the office of the City Engineer, Toronto.

The tenderers shall submit with their tender the names of two personal sureties (approved of by the City Treasurer), not members of the City Council, or officers of the Corporation of the City of Toronto, or in lieu of said sureties the bond of a Guarantee Company, approved as aforesaid.

The usual conditions relating to tendering as prescribed by City By-law must be strictly complied with, or the tenders will not be entertained.

The lowest or any tender not necessarily accepted.

F. S. SPENCE, Acting Mayor,
Chairman, Board of Control.
City Hall, Toronto, May 29th, 1911.

STEEL BRIDGE.

Iowa Falls, Iowa.

Notice is hereby given that sealed bids will be received by E. L. Marriage, Eldora, Iowa, until 2 o'clock P. M. of June 22d, 1911, for the construction of a steel bridge with concrete floor across the Iowa River at Iowa Falls, Iowa.

Length of bridge 353 feet. Roadway 20 feet wide. Two sidewalks each 5 feet wide.

Check for 10% must accompany bids.

Board of Supervisors reserve right to reject any or all bids.

Plans and specifications on file at County Auditor's office at Eldora, Iowa.

Letting to be at Court House, Eldora, Iowa, June 22, 1911, at 2 P. M.

E. L. MARRIAGE,
Auditor of Hardin County, Iowa.

PAVING BLOCKS.

Holyoke, Mass.

INVITATION FOR PROPOSALS FOR PAVING BLOCKS.—The Board of Public Works of Holyoke, Mass., will receive at its office in Holyoke, until 2 o'clock in the afternoon of Friday, June 16, 1911, sealed proposals for six thousand one hundred (6100) square yards of vitrified brick or Belgian blocks and as many more as may be ordered in writing by the Board prior to October 1, 1911. At the above time and place the proposals so received will be publicly opened and read. Full information may be had upon application, to the Board. Proposals must be accompanied by a certified bank check to the order of the City of Holyoke in the sum of Two Hundred Dollars ($200.00) or by lawful money in the same sum. Bids to be addressed to the Chairman marked "Proposals for Paving." The Board reserves the right to reject any or all bids or to accept any bid that in its opinion may be for the best interests of the City of Holyoke. Oscar C. Ferry, Asst. Clerk, Holyoke, Mass., May 26, 1911.

BRIDGES.

Tacoma, Wash., May 26, 1911.

Sealed proposals will be received at the office of the Commissioner of Public Works between the hours of 12 M. and 2 P. M. on the 26th day of June, 1911, for the construction of a steel bridge over the Puyallup River, and a steel bridge over the City Waterway, combined estimate $600,000.00.

Plans and specifications for both Bascule and Vertical Lift types may be obtained at office of W. C. Raleigh, City Engineer, Tacoma, or Waddell & Harrington, Consulting Engineers, Kansas City, Mo. A deposit of $10 required for plans of each bridge.

Certified check of 5% must accompany bid.

OWEN WOODS,
Commissioner of Public Works.

U. S. ENGINEER OFFICE, New York City, N. Y., June 1, 1911.—Sealed proposals for furnishing and trimming into U. S. dredges during the 12 months beginning July 1, 1911, about 24,000 tons (or more) of bituminous coal will be received at this office until 12 M., June 20, 1911, and then publicly opened. Information on application. S. W. ROESSLER, Col., Engrs.

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(Or Vacant)

WANTED—Competent man to take charge of dipper dredge outfit, also a sub-marine drill boat; must be thoroughly experienced and a hustler; state experience and former employers. Address "K. B. 22," Engineering News, New York. 22-2t

MAN WANTED—Take charge of special piece of concrete construction work on aqueduct containing special form work; must thoroughly understand blueprints; only good man need apply; state references, salary, etc. Address "G. A. 22," Engineering News, New York. 22-1t

WANTED—Good walking bosses; experienced in cofferdam work and heavy excavation; state experience and former employers. Address "H. B. 22," Engineering News, New York. 22-2t

WANTED—Checkers on structural steel work for buildings; only experienced men need apply. JOHN V. B. RAPP, 507 5th Ave., New York. 22-1t

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